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PCN. FORTY-SECOND ANNUAL REPORT

OF THE
TRUSTEES

OF

THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1910



A FREE INSTITUTION

FOR THE PEOPLE
FOR EDUCATION
FOR SCIENCE

MEARNS
COLLECTION

NEW YORK

ISSUED FEBRUARY 13, 1911



THE AMERICAN MUSEUM OF
NATURAL HISTORY

INCORPORATED IN 1869

MEMBERSHIP AND ENDOWMENT

There are more than two thousand residents of New York and vicinity who support the educational and scientific work of the Museum and enjoy its lectures, publications and other privileges.

Annual Members	\$ 10
Sustaining Members (annually)	25
Life Members	100
Fellows	500
Patrons	1,000
Benefactors	50,000

The Endowment Fund was established in 1884. The Trustees desire to insure the permanent growth and welfare of the Museum through an increase of this fund.

FORM OF GIFT OR BEQUEST

*I do hereby give and bequeath to "THE AMERICAN
MUSEUM OF NATURAL HISTORY" of the City of
New York,*.....

.....

.....



IRVING PRESS
119 and 121 East Thirty-first Street
New York

FORTY-SECOND ANNUAL REPORT
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1910

Annual Report of the President

Treasurer's Report

List of Accessions

Act of Incorporation

Contract with the Department of Parks

Constitution

By-Laws and List of Members



NEW YORK

ISSUED FEBRUARY 13, 1911

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GEORGE H. SHERWOOD

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UNITED STATES TRUST COMPANY OF NEW YORK

SCIENTIFIC STAFF

FOR 1911

ACTING DIRECTOR

CHARLES H. TOWNSEND, Sc.D.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

EDMUND OTIS HOVEY, A.B., Ph.D., Curator

DEPARTMENT OF MINERALOGY

L. P. GRATACAP, Ph.B., A.B., A.M., Curator

GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

Prof. HENRY E. CRAMPTON, A.B., Ph.D., Curator

ROY W. MINER, A.B., Assistant Curator

FRANK E. LUTZ, A.B., A.M., Ph.D., Assistant Curator

L. P. GRATACAP, Ph.B., A.B., A.M., Curator of Mollusca

WILLIAM BEUTENMÜLLER, Associate Curator of Lepidoptera

JOHN A. GROSSBECK, Assistant

Prof. WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects

ALEXANDER PETRUNKEVITCH, Ph.D., Honorary Curator of Arachnida

Prof. AARON L. TREADWELL, B.S., M.S., Ph.D., Honorary Curator of Annulata

CHARLES W. LENG, Ph.D., Honorary Curator of Coleoptera

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fishes and Reptiles

LOUIS HUSSAKOF, B.S., Ph.D., Associate Curator of Fossil Fishes

JOHN TREADWELL NICHOLS, A.B., Assistant Curator of Recent Fishes

MARY CYNTHIA DICKERSON, B.S., Assistant Curator of Herpetology

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

Prof. J. A. ALLEN, Ph.D., Curator

FRANK M. CHAPMAN, Curator of Ornithology

ROY C. ANDREWS, A.B., Assistant Curator of Mammalogy

W. de W. MILLER, Assistant Curator of Ornithology

SCIENTIFIC STAFF FOR 1911—*Continued*

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator Emeritus
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Curator
WALTER GRANGER, Associate Curator of Fossil Mammals
BARNUM BROWN, A.B., Associate Curator of Fossil Reptiles
WILLIAM K. GREGORY, A.B., A.M., Ph.D., Assistant

DEPARTMENT OF ANTHROPOLOGY

CLARK WISSLER, A.B., A.M., Ph.D., Curator
PLINY E. GODDARD, A.B., A.M., Ph.D., Associate Curator
HARLAN I. SMITH, Associate Curator
ROBERT H. LOWIE, A.B., Ph.D., Assistant Curator
HERBERT J. SPINDEN, A.B., A.M., Ph.D., Assistant Curator
CHARLES W. MEAD, Assistant
ALANSON SKINNER, Assistant

DEPARTMENT OF PHYSIOLOGY

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

DEPARTMENT OF PUBLIC HEALTH

Prof. CHARLES-EDWARD AMORY WINSLOW, S.B., M.S., Curator
JOHN HENRY O'NEILL, S.B., Assistant

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, B.S., Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

DEPARTMENT OF PUBLIC EDUCATION

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus
GEORGE H. SHERWOOD, A.B., A.M., Curator



PORTION OF FINISHED FUR SEAL GROUP. Gift of the late Mr. D. O. Mills. The seals were collected expressly for the Museum in 1908

FORTY-SECOND ANNUAL REPORT

To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:

The President submits herewith his report of the progress of the Museum for the year 1910. A new feature of the preparation of this report is that its departmental sections* have been written under the President's direction by the Curators and Officers in charge.

Our gratitude should first be expressed to the old friends and supporters of the American Museum, whose generous gifts of the past year are acknowledged in detail in the pages of this report.

While our income from endowment has not materially increased, the total gifts towards exploration and exhibition exceed those of any previous year in the Museum's history.

We have gained also new friends at home and abroad who have been impressed with the spirit and purpose of the Museum. Among the latter may be mentioned especially three from Great Britain, Sir Ernest Shackleton, Mr. F. C. Selous and Mr. Walter Winans. The contribution of the Belgian Government to the Congo Expedition may also be recalled.

The addition of three new departments since 1907, namely, of Living Fishes and Reptiles, of Woods and Forestry and of Public Health, has made serious demands upon our income, when taken in connection with the strengthened personnel of several of the older departments and the general advances in salaries and wages to meet the increased cost of living which affects our entire force of 224 persons. Thus the increased endowment afforded by Mr. Jesup's bequest, which cannot by its terms be used for any item of Maintenance, is offset by these increases. Expansion along this line, how-

* Beginning on page 26.

ever, has now reached its proper limit for some years to come, and the application of an enlarged endowment, which is urgently needed, will be mainly in the direction of placing on exhibition the superb material from many lands with which our storage rooms are still crowded.

The plan for the general rearrangement of our great and rapidly increasing collections and exhibition halls, including the movement in the direction of a final ideal plan which shall be popular, educational and scientific, has made marked progress, but has not yet reached a stage where it can be published.

The maintenance of the Museum by the City has been increased for 1911 to \$189,757, but if this were enlarged to the legal limit of \$200,000, enjoyed by our sister Museum of Art, it would still fall far below the actual expenditures for maintenance, which amounted in the year 1910 to \$229,259.38.

During the present year the whole exhibition space, including the new West Wing, has been completely occupied and application has been made to the Park Department for the erection of a new wing.

We take this opportunity of acknowledging the spirit of cordial coöperation which has animated Park Commissioner Stover and the members of the Board of Estimate and Apportionment.

EXHIBITION, INSTALLATION, ALTERATION

The chief work of the past year has been the equipment and preparation for exhibition of the new West Wing of the Museum on Columbus Avenue and the rearrangement and transfer of the exhibitions and collections in the Department of Anthropology connected therewith. Thus a number of notable collections, some of which have been in the Museum for many years, have been installed for the public in the following new exhibition halls:

PHILIPPINE ISLANDS, FOURTH FLOOR, NEW WING
SOUTH SEA ISLANDS, FOURTH FLOOR, NEW WING
INDIANS OF THE SOUTHWEST, FIRST FLOOR, NEW WING
AFRICAN ETHNOLOGY, SECOND FLOOR, NEW WING



MAIN ROOM OF THE "MITLA" RESTAURANT

Removals and rearrangements, in connection with these important changes, have led to the following transfers:

MINERALOGICAL HALL, FOURTH FLOOR, WEST WING

MEXICAN HALL, SECOND FLOOR, WEST WING

The Hall of Molluscs, which has been removed from the fifth floor, to make room for the new Administrative Offices, is still in preparation and will not be open to the public for some time. This involves a rearrangement of the shell collections of the Museum, among the earliest of its acquisitions, which, when completed, will appear under the new aspect of the modern spirit of museum exhibition.

The Buildings and Plans Committee, in connection with the expenditure of the \$100,000 equipment fund, appropriated by the Board of Estimate and Apportionment on July 2, 1909, has instituted a thoroughly systematic method of preparing, approving and filing of all plans and of controlling expenditures. A special room for the Buildings and Plans Committee and for the filing of plans will be fitted up.

The construction of the service roadway from Columbus Avenue under the Southwest Wing was completed in May. The facilities for handling freight and the weighing and storage of coal have been greatly improved thereby.

A restaurant, modeled to conform to the interior of one of the Mexican temples at Mitla, has been opened in the basement. The historic design and equipment of the room in itself, as arranged by Director Bumpus and Professor Saville, have attracted much interest.

For a long time it has been felt that a Members' Room should be provided, which patrons of the Museum and their friends might enjoy while visiting the institution. Such a room is now being equipped on the third floor, from Trustees' funds, with writing tables, telephone booth, etc.

As a greater protection from fire, a new Electric Fire Alarm System has been installed in the basement. The signals

are so arranged that if an alarm is sounded, any employe in the basement can tell instantly in which section of the building the fire is located.

A feature in the furnishing of the new exhibition halls has been the introduction of a new type of gun-metal case with marble base, designed by Director Bumpus in consultation with Secretary Kent of the Metropolitan Museum. These cases are put together in such a way as to facilitate the removal of either side without disturbing the remaining sections or the material within. The construction is simple, artistic, relatively inexpensive, but capable of mechanical improvement in certain details.

The series of changes in the exhibition halls has facilitated the transfer of the Administrative Offices of the Museum to the center of the building, top floor, which is now in progress.

PLANS FOR NEW BUILDING

These changes emphasize the desirability of the adoption and approval by the Trustees of a permanent plan of development of the building, as a whole, also of a final educational and scientific arrangement of all the collections. This matter has been given a great deal of study by the President, in consultation with the heads of various departments, and especially of Anthropology, which department occupies the entire western half of the building.

A preliminary report by the President, entitled "History, Plan and Scope of the American Museum of Natural History," was presented at the Forty-first Annual Meeting of the Trustees, February 14, 1910, in an edition of fifty copies from the Irving Press. A Curators' Edition of the same report will be issued early in 1911, so that the members of the scientific staff may have an opportunity of examining the proposed future plans of the exhibition halls of the Museum and of making any suggestions regarding these plans which may be found desirable, before they are finally adopted by the Board.

In the meantime, Messrs. Trowbridge and Livingston, architects, were invited to prepare preliminary plans for the new Western Entrance Hall of the Museum, facing Seventy-ninth Street. These plans have been very carefully studied by the Buildings and Plans Committee, with reference to making this entrance a monumental gateway to the anthropological half of the Museum and of placing therein, on the first and second floors, the Duc de Loubat collection and other reproduced and original archæological remains from Mexico and Central America, which will represent the high-water mark of native American culture and lend themselves to an imposing architectural treatment. This Hall is being designed in keeping with its contents, and an expert archæologist has been especially despatched by the Museum to the ruins of Mexico and Yucatan to study and prepare detailed plans for structural and mural designs. Director Bumpus and Dr. Spinden also visited Mexico in February for this purpose. At the May Meeting of the Board, the general plans for this great western entrance were approved and referred back to the Committee for the further study of detailed design.

The Committee has also begun the consideration of plans for the construction of an East Wing (South Section of the East Façade) on Eighth Avenue or Central Park West, and of a Court Building in the southeast area.

Responding to a request from the Department of Parks for an estimate of the probable sum which the Museum will require for the purpose of building during the next five years, preliminary application has been made to the City for \$2,750,000, or \$550,000 per annum for the years 1911-1915, inclusive. This is the amount estimated to be necessary to construct and equip the three new sections and a court building, together with enlargement of the power plant, now under consideration by the Trustees, namely:

WEST ENTRANCE HALL
WEST TRANSEPT
SOUTHEAST WING
COURT BUILDING

The growth of the collections has been so much more rapid than the growth of the building that the Museum still finds itself with its great storerooms on the upper floor overcrowded and with most interesting collections still undisplayed. There are, moreover, certain subjects, which will be of very great value in the educational system of the City, that must be provided for in new buildings, especially astronomy, geography, oceanography and ichthyology. In this connection, for convenience of reference, it is important to summarize the appropriations for building from 1871 to 1909, inclusive:

TOTAL OF APPROPRIATIONS FOR CONSTRUCTION PURPOSES OF THE
AMERICAN MUSEUM OF NATURAL HISTORY, 1871-1909

Chapter 290, Laws of 1871.....	\$500,000
Chapter 315, Laws of 1875.....	200,000
Chapter 44, Laws of 1887.....	400,000
Chapter 89, Laws of 1889.....	400,000
Chapter 423, Laws of 1892.....	350,000
Chapter 448, Laws of 1893.....	50,000
Chapter 63, Laws of 1894.....	200,000
Chapter 235, Laws of 1895.....	500,000
Chapter 175, Laws of 1896.....	500,000
Chapter 213, Laws of 1897.....	500,000
Chapter 183, Laws of 1900.....	350,000
Ordinance Board of Aldermen, July 22, 1902.....	200,000
Ordinance Board of Aldermen, June 16, 1903.....	188,000
Ordinance Board of Aldermen, April 11, 1905.....	500,000
Ordinance Board of Estimate and Apportionment, 1909..	100,000
	<hr/>
	\$4,938,000

The entire sum, namely, \$4,938,000, which has been expended thus far for building, is small compared with that appropriated for other great public buildings in the City, or with the important part which the Museum plays in the educational system of New York, or, again, with the large amount, now aggregating \$4,473,507.32, which the citizens of New York have contributed to the endowment, to the collections and to the library of this great institution.

GENERAL APPORTIONMENT OF MUSEUM AND CITY FUNDS

To clearly show the general policy and scope of the Museum, it is interesting to present the allotment, after very careful analysis, of the total expenditures of the moneys contributed by the City and by the Museum in the year 1909, as follows:

ANALYSIS OF EXPENDITURES IN 1909

	By the Trustees and Friends of the Museum	By the City	Total
<i>Administration (Maintenance)</i>			
All salaries and supplies for the purpose of scientific and office administration, heating and lighting, current repairs, care of exhibition halls and collections, sundry and general expenses.			
Salaries	\$3,403 36	\$122,296 94	\$125,700 30
Supplies, etc.....	16,565 32	26,835 31	43,400 63
<i>Scientific care of Exhibition Halls, Collections (Maintenance)</i>			
All salaries and supplies for the purpose of preparing, preserving and exhibiting specimens and collections	21,750 06	17,834 51	39,584 57
<i>Publication and Research</i>			
For apportionment of services of the scientific staff for publication and research, services of artists and photographers, the preparation and printing of the Bulletin, Memoirs, American Museum Journal, and of the Jesup North Pacific Expedition Publications.			
Publication	25,695 32	.....	25,695 32
Research	11,021 19	.....	11,021 19
<i>Library</i>			
For the payment of all salaries for care and binding, and for the purchase of books, periodicals, etc....	7,482 56	(salaries only) 9,434 21	16,916 77
<i>Exploration and Purchase of Collections</i>			
For the payment of all field salaries and expenses while in the field, purchases of all specimens and collections, payment of express, freight and custom house charges for the same.....	96,291 68	.....	96,291 68
<i>Public Education</i>			
For the payment of services and supplies for photographic work, lectures, transferring school collections (excepting maintenance of automobile, but including chauffeur's services) and Children's Room.....	5,004 14	3,873 95	8,878 09
	<u>\$187,213 63</u>	<u>\$180,274 92</u>	<u>\$367,488 55</u>

The Trustees and friends of the Museum will be especially impressed with the large amount that has been expended, particularly for publication and research, for exploration and purchase of collections, as well as the generous contribution of the Museum to the cause of public education, which is not part of our original contract relations with the City. This general apportionment of funds is not a new feature of the Museum policy, but dates back to the early years of President Jesup's administration. It is this broad scientific policy which has given the Museum its world-wide reputation and which has made a position on its scientific staff as desirable as that of an appointment in one of our larger universities.

The analysis shows also that the general gifts or contributions from all sources to the Museum in 1909 exceed by over \$7,000 the City's contribution to maintenance. The payroll, owing to the appointment of new scientific officers, the rounding out of the scientific departments of the Museum so as to cover the whole field of natural history, the salaries of these officers, the increases of salaries to members of the scientific staff as well as to the administrative officers of the institution and to the employes or labor force, during the past three years, has reached a very large total.

EDUCATIONAL EXTENSION

The year's progress in the Department of Education is fully reported upon under the heading "Public Education" on page 26. This feature of the Museum's activity is one which brings it more closely in touch than any other with the welfare of our great City, as a whole, and with our entire public educational system. While in our opinion, the City would not be justified in building an institution for pure research or for exploration, it is more than justified, in fact, it is the very wisest use of public funds, to support and extend the system of an institution which is doing so much for the cause of public enlightenment. Here, again, statistical inquiry has been made which illustrates the march of progress during the past seven years, 1904-1910:

STATISTICS OF NUMBERS REACHED BY MUSEUM
EXTENSION SYSTEM

	1904	1905	1906	1907	1908	1909	1910
Board of Education Lectures...	44,000	42,212	45,000	35,068	43,386	28,402	43,549
Children's Lectures.....	35,000	35,000	17,187	26,312	22,931	20,165	9,242
Children's Room and Mrs. Roessler's Special Lectures.....				3,376	5,430	7,359	6,368
Classes visiting the Museum for General Study..	7,380	11,000	6,813	7,795	10,818	8,712	9,284
Meetings of Scientific Societies and other Meetings and Lectures.....	21,931	35,281	6,867	11,784	15,587	337,433	58,926
<hr/>							
General Attendance for all purposes..	402,449	565,489	476,133	537,894	1,043,582	839,141	613,152
Number of Pupils reached by Circulating Collections.....	250,000	375,000	800,000	725,000	575,801	922,512	839,089
	652,449	940,489	1,276,133	1,262,894	1,619,383	1,761,653	1,452,241

The rise of attendance during the years 1908-1909 was due chiefly to the extraordinary interest aroused by the Tuberculosis Exhibition, which brought thousands of new visitors from the East Side of the City especially. It was this interest which led to the establishment of the new Department of Public Health, which, when in full operation, will render permanent public service in a new field.

EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

The income from the Jesup bequest, as well as the generous gifts of special funds, during the past year, has enabled the Museum to carry on more active and successful expeditions in the field than in any previous year of its existence. The wide geographical extent of our exploratory work may be judged from the following summary:

*Report of the President**In the United States*

ALASKA	MAINE
ARIZONA	MASSACHUSETTS
CALIFORNIA	MISSISSIPPI
DAKOTA	MONTANA
FLORIDA	NEW MEXICO
NEW YORK	

In Foreign Countries

ALBERTA, CANADA	KOREA
ARCTIC AMERICA	MEXICO
BELGIAN CONGO	NICARAGUA
BRITISH EAST AFRICA	PHILIPPINE ISLANDS
CELEBES	SAMOA
COLOMBIA	VENEZUELA
JAPAN	WEST INDIES

The most notable expeditions, perhaps, are those for the benefit of the department of zoölogy, especially the expedition to the Belgian Colony of the Congo and that to British East Africa, as described in Curator Allen's report. It is especially gratifying to note that the Congo Expedition has been partly supported by a contribution from the Belgian Government. Important work has also been done in the collecting of whales off the coast of Japan. The anthropological work in the southwestern as well as in the northwestern United States is yielding fine results. The expeditions for fossil vertebrates have maintained the high standard of previous years. It is greatly desired that special funds should be secured for the continuance of exploration for fossil horses.

HOSPITALITY TO SCIENTIFIC SOCIETIES

The Museum continues to enjoy great popularity as a center for lectures and for conferences of scientific societies and organizations from all parts of the United States. Some of the sessions of the Fortieth Anniversary of the American Fisheries Society were held at the Museum in September, and a luncheon was given to its members.

During the year, the following societies have been entertained:

- American Bison Society
- American Ethnological Society
- American Fisheries Society

American Nature Study Society
American Psychological Association, New York Branch
American Rose Society
American Scenic and Historic Preservation Society
Audubon Society of the State of New York
City History Club of New York
Employees' Nursery Association
Fairview Garden School Association
Geological Society of America
Horticultural Society of New York
Linnæan Society of New York
Mount Holyoke Alumnae Association
National Association of Audubon Societies for the Protection of Wild
Birds and Animals
National Plant, Flower and Fruit Guild
Natural Science Committee of the Associate Alumnae of the Normal
College, New York City
New York Academy of Sciences
New York Entomological Society
New York Library Club
New York Microscopical Society
New York Mineralogical Club
Playground Association of America
School Garden Association of New York
Society of Former Employees of the United States Nurseries
Torrey Botanical Club
West Side Natural History Society

ADMINISTRATION AND CHANGES IN STAFF

The internal administration of the Museum remained under the guidance of Director Hermon C. Bumpus until the middle of June, when he entered upon a six months' leave of absence.

Through the courtesy of the New York Zoölogical Society, Dr. Charles H. Townsend, Director of the New York Aquarium, entered the service of the Museum temporarily as Acting Director, an office which he has filled with marked ability and success.

Professor R. P. Whitfield, who served as Curator of the Department of Geology and Invertebrate Palæontology for more than thirty-two years, and who was made *Curator Emeritus* in 1909, died during the month of April, 1910. He will always be remembered as one who rendered the Museum distinguished and faithful scientific service.

Owing to the heavy tax on Professor Osborn's time, which his administrative duties as President have entailed, he has retired as Curator of the Department of Vertebrate Palæontology, after nineteen years of service, and has been appointed *Curator Emeritus*. Dr. W. D. Matthew, Associate Curator, has been promoted to the active Curatorship.

In May, Dr. Bashford Dean offered his resignation as Curator of the Department of Ichthyology and Herpetology. Dr. Louis Hussakof was promoted to the Associate Curatorship of Fossil Fishes and Mr. John Treadwell Nichols to the Assistant Curatorship of Recent Fishes.

The Department of Public Health was organized last September, with Professor Charles-Edward Amory Winslow, formerly of the Massachusetts Institute of Technology, as its head.

In June, Mr. J. D. Figgins resigned from the preparation staff to accept the Directorship of the Colorado Museum of Natural History at Denver. Later, Mr. Albert E. Butler resigned to accept a position in the preparation department of the same Museum.

In connection with the leave of absence of Director Bumpus and of the resignation of Curator Dean, the Trustees at the May meeting appointed a Committee to consider the present system of internal administration of the Museum, as provided for in the Rules and Regulations of 1902, and to suggest to the Board such changes as might be deemed necessary.

I. PROGRESS OF THE DEPARTMENTS

PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

DEPARTMENT OF PUBLIC EDUCATION.—According to the Articles of Incorporation of the Museum in 1869, one function is to furnish popular instruction, and on the basis of this charter the Museum entered into contractual relations with the City. Not only have the Trustees met in full the letter and spirit of this contract with the City, but in many ways,

especially through educational work, they have rendered returns to the City far in excess of their contract obligations.

Without additional compensation from the City, the distribution of circulating collections to the public schools was undertaken, special lectures for school children were instituted and special arrangements were made for the reception of classes and for their guidance through the Museum.

This extension work now involves a supplementary annual expenditure from Trustees' funds of approximately \$5,000.

For the purpose of making the teachers better acquainted with the ways in which the Museum is prepared to assist them in their work, a *Teachers' Day* was held at the Museum early in November. Representatives from all of the schools in the City were invited to be present and brief illustrated lectures were given by members of the scientific staff. Addresses were also made by President Henry Fairfield Osborn and Dr. William H. Maxwell, Superintendent of Schools, which were followed by a general reception. One of the results of *Teachers' Day* has been the creation of a greater interest on the part of the teachers in *Museum Extension Work*, and applications for the use of the collections have materially increased.

MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.—This is the seventh year that the Museum has supplied the schools of the City with the circulating collections of nature study specimens, and this work continues to receive the emphatic approval of the officials and teachers of the Board of Education. The material contained in these collections has been selected with a view to placing in the hands of the teachers the specimens which they require for class-room work. At the present time these collections include characteristic forms of birds, insects, lower invertebrates, minerals and native woods.

The collections are delivered to the schools by Museum messengers and are called for at the end of the loan period. During the year 334 schools have been supplied and 839,089 children have studied the collections.

Several special collections have been furnished to various branch libraries of the City. The material available for this purpose includes Philippine, Chinese, Indian, Eskimo, African,

Hiawatha, Fiber and Cord, Bird and Native Woods exhibits, and plans for the further development of this feature of the Museum's work are under way.

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1904	1905	1906	1907	1908	1909	1910
Number of Collections in use.....	120	400	435	450	484	435	390
Number of Schools of Greater New York supplied...	115	200	300	325	383	419	334
Number of Pupils studying the Collections	250,000	375,000	800,000	725,000	575,801	922,512	839,089

LECTURES TO SCHOOL CHILDREN.—Owing to the many demands that were made upon the time of the assistants in this department, the regular informal course of lectures to school children was omitted in the spring. The fall course, however, took place as usual, with an attendance of 9,242. These lectures are given by various members of the Museum staff, with a view to supplementing the class-room work in geography and history.

In addition to the regular course of lectures to school children, on request, special lectures were arranged for pupils from the High Schools and the Training School for Teachers.

GENERAL LECTURES.—The general lectures have included two courses to Members of the Museum, the usual series given under the auspices of the Board of Education, free lectures on public holidays, and special lectures in conjunction with the New York Academy of Sciences and Affiliated Societies. The attendance at these lectures has been 58,961.

PHOTOGRAPHY.—The general photographic work has been extensive. The special feature of it has been the preparation of the large transparencies for the African Hall, which have been colored in oil.

The reference file of photographs has received several important additions. We are greatly indebted to Mr. A.

Radclyffe Dugmore for permission to make a series of prints from his remarkable negatives of big game taken in British East Africa. A similar courtesy has been extended by Mr. Kermit Roosevelt in connection with the negatives taken by him on his recent hunting trip with his father. Dr. Louis L. Seaman, another African traveler, has given the Museum permission to reproduce his photographs.

CHILDREN'S ROOM.—The Children's Room continues to enjoy the popularity which was manifested at its inception. While the main purpose of the room is recreative, an instructor is always present to answer questions and to guide the interests of the children in profitable channels. Owing to the limited equipment and to the cramped quarters now occupied, it is necessary to restrict the attendance, and many children have to be turned away. It is hoped that a patron may be found who will provide the necessary support for extending this work.

ROOM FOR THE BLIND.—Through the bequest of the late Phebe Anna Thorne and the generosity of her executors, a sum of \$25,000 has been provided as an endowment of the Room for the Blind, the income from which will provide ample funds for the development of this feature of the Museum's activities. This sum was given as a memorial to Mr. Jonathan Thorne, and a bas-relief tablet in bronze, executed by Mr. Chester M. Beach, has been placed in the room.

During the year, classes from the public schools and from the Institute for the Blind, as well as single visitors, have made use of this exhibit. Plans have also been made for supplying the classes of blind children in the public schools with special loan collections of nature study specimens.

The services of the instructor have been in increasing demand by teachers desiring to have their pupils guided through the Museum, and many special lectures have been given on request.

MINERALS

L. P. GRATACAP, Curator

DEPARTMENT OF MINERALOGY.—The accessions for the year, of noteworthy importance, have been almost entirely confined to specimens procured through the interest of the

Matilda W. Bruce endowment. Among the additions from the Bruce Fund may be mentioned a remarkable Binnite from Switzerland, a Hambergite from Madagascar, the new and brilliant crystallizations of Phenacite from Brazil, the new and attractive Natrochalcite from Chile, Seligmanite from Montana, and the large clear Topazes from Texas. There have also been purchased, through the general appropriation fund, an interesting large twin Calcite from St. Lawrence County, New York, Tourmaline crystals from California and a beautiful native silver group from Houghton, Michigan. Mr. J. Pierpont Morgan presented to the department through Dr. George F. Kunz a very beautiful cut gem of the new gem-stone "Morganite," weighing 57 carats. This is the rose beryl from Mount Bity, Madagascar. With it we received an uncut specimen of the beryl itself. These specimens have been added to the Gem Collection and have attracted deserved attention.

No research work or collecting has been done, with the exception of some local examinations.

The exhibition of minerals is still unsatisfactory, but it is hoped that in the new hall, to which the department expects soon to move its collection, it will be possible to adequately meet the needs of the public, and also the indisputable claims of the collector and the student. This anticipated removal has made necessary the preparation of plans contemplating the new conditions, and plans also calculated to facilitate the mechanical problem of the removal itself.

The Curator has prepared this year a work entitled "Popular Mineralogy," in which is embraced a large section, descriptive, in a popular way, of the Bement Collection of Minerals.

MAMMALS AND BIRDS

J. A. ALLEN, Curator

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The accessions in ornithology have been less than in several former years, but in mammalogy they greatly exceed those of any recent year in the history of the department, not only in number of specimens but in their importance. Nearly all have been acquired by purchase or through Museum expedi-

tions. The number of specimens of mammals received during the year is 1,068; of birds, 1,130 skins and about 125 sets of eggs.

As heretofore, valuable specimens of both mammals and birds have been received in the flesh from the New York Zoölogical Society, and many specimens, also in the flesh, from the Central Park Menagerie. Among the more noteworthy gifts are a small collection of birds from the Samoa Islands, including several rare species, and a topotype of a newly described cat from Tibet, from Honorable Mason Mitchell, U. S. Consul at Samoa; two skins of the Glacier Bear, from Alaska, presented by Mr. G. Frederick Norton, of New York City; a skeleton of the rare Giant Forest Pig (*Hylochaerus*) of Africa, presented by Mr. K. V. Painter, of Cleveland, Ohio; a collection of small mammals from Colorado, received from Mr. N. G. Buxton, and a small collection of rare birds from the Hawaiian Islands, from Dr. C. H. Townsend.

During the year a valuable collection has been received from the Museum's Stefánsson-Anderson Arctic Expedition, consisting of 200 bird skins, numerous nests and eggs and nearly 100 mammals, the latter including a series of Barren Ground Caribou and White Sheep. Many of these specimens were obtained near the Arctic coast, in the Colville River district of Alaska, a region hitherto almost unexplored.

Mr. M. A. Carriker, Jr., has continued his work for the Museum in eastern Venezuela, and during the year has sent to the Museum about 200 mammals, many of which were new to the collection and several new to science. He has now transferred his field of work to western Venezuela, where he will remain during 1911.

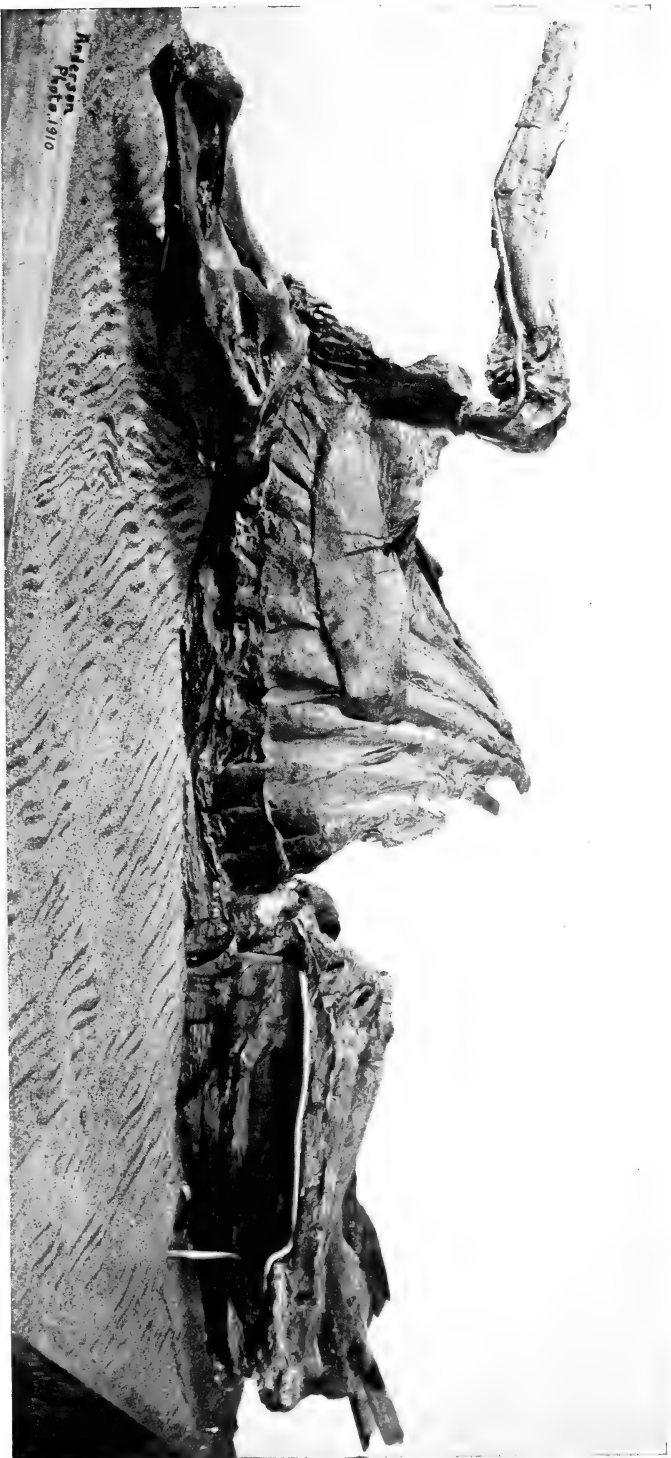
Especially important acquisitions have been made through the work of Mr. Roy C. Andrews, Assistant in Mammalogy, who late in the season of 1909 was detailed to the "Albatross" on a trip of exploration through the Dutch East Indies, through the courtesy of the United States Bureau of Fisheries. Although opportunities for shore collecting were few and brief, Mr. Andrews secured about 350 specimens of birds and a considerable number of mammals, very few of

which were previously represented in the Museum's collections. On leaving the "Albatross" at Nagasaki, in February, 1910, Mr. Andrews was able to arrange with the President of the Oriental Whaling Company of Osaka for opportunity to secure skeletons of a considerable number of whales and porpoises, all of which have safely reached the Museum. They include the Sulphurbottom, Finback, Sperm and Sardine whales, all fully adult and of large size respectively for the species; also two Killer whales and ten porpoises, representing four species, one of them new to science. He was able also to study, photograph and take measurements of 180 large whales, and to study and photograph various parts of skeletons *in situ*, the relations of which cannot always be satisfactorily determined after maceration. Not only is Mr. Andrews entitled to great credit for the use he made of his opportunities, but the Museum is greatly indebted for courtesies and material assistance rendered to Mr. Andrews by the President and other officials of the Oriental Whaling Company, without whose cordial assistance such success would have been impossible.

Early in the year (February to May) Mr. F. M. Chapman, Curator of Birds, made a trip to the Mount Orizaba region of Mexico to secure material and data for a large "habitat group" to illustrate American tropical bird life. The trip was eminently successful, everything having been secured that can be required in the construction of the group.

Thus far no material has been received from the Museum's Congo Expedition under the leadership of Messrs. Herbert Lang and James Chapin. This expedition, which was made possible through the contributions of a number of friends of the Museum, left New York in May, 1909, with the expectation of remaining in the Congo for three years. Advices received from them give assurance that they have thus far met with most excellent success along every line of their work, the collections already made numbering thousands of specimens of birds and mammals, besides much material in other departments of natural history.

Mr. W. B. Richardson, who for three years collected mammals and birds for the Museum in Nicaragua, was sent on an expedition to western Colombia in October of the present



A DINOSAUR MUMMY. This dinosaur (*Trachodon annettensis*) was discovered in Wyoming in 1908 by Mr. Charles H. Sternberg and purchased by the Museum through the Morris K. Jesup Fund



year, and a small collection has already been received from him. His work promises excellent results and will be continued during the coming year.

The White Bighorn Sheep Group was completed early in the year, and a Fur Seal Group, the gift of the late Mr. D. O. Mills, has been prepared and placed on exhibition; also a hippopotamus and several large African antelopes. The new Loon Group has been added to the series of Habitat Groups of Birds, and work on the Mount Orizaba Life-Zone Group is well under way.

Six papers, prepared by the Curator, have been published during the year in the Museum *Bulletin*, five of which relate to mammals and one to birds. One of them is a final report on the mammals recently received by the Museum from Nicaragua. As usual, the Curator has also had editorial supervision of the *Bulletin*.

Mr. Miller, Assistant in Ornithology, has spent much time on a monographic review of the birds of Nicaragua, based on the Richmond collection, which will be ready for publication in the next volume of the *Bulletin*.

EXTINCT VERTEBRATES

HENRY FAIRFIELD OSBORN, Curator Emeritus; W. D. MATTHEW, Curator

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The most important accessions of the year have been through Museum expeditions to the Cretaceous Dinosaur beds of Montana and of Alberta, Canada, in charge of Mr. Brown, and to the Lower Eocene of Wyoming, in charge of Mr. Granger. Both expeditions were more than usually successful. Mr. Brown obtained a large and valuable collection, including skeletons of the Duck-billed Dinosaur, of a diminutive Horned Dinosaur and of a large Armored Dinosaur. Mr. Granger's party secured a skeleton of the Four-toed Horse, *Eohippus*, representing a somewhat older stage in the Ancestry of the Horse than has been known hitherto, besides a large series of skulls, jaws, etc., of Lower Eocene mammals, many of them new to science. Dr. W. J. Sinclair, of the geological staff of Prince-

ton University, joined this expedition as a volunteer, and contributed valuable observations upon the geology of the country, besides discovering many of the specimens secured.

A discovery of peculiar interest to citizens of New York is a considerable part of a dinosaur skeleton at Fort Lee, at the very gates of the city. This specimen was found in the red shales which underlie the trap rock of the Palisades about a mile and a half north of the ferry landing, and the animal whose bones are thus preserved probably wandered in life over what is now Manhattan Island. The Museum is indebted for this discovery to Messrs. J. E. Hyde, D. D. Condit and J. C. Boyle, postgraduate students under Professor Kemp of the Department of Geology of Columbia University.

Through the efforts of President Osborn, Dr. R. Broom, the distinguished palæontologist of Cape Colony, has been induced to collect in the interests of this Museum in the Karroo formation of that region, and has already secured a skeleton and a fine series of skulls of the ancient and peculiar types of fossil reptiles which inhabited Africa during the Permian Period.

The Museum has secured through exchange with the Tübingen University a fine Ichthyosaur skeleton, which when restored and mounted will afford an excellent companion piece to the Plesiosaur skeleton recently placed on exhibition. Other important exchanges have been made with the Stockholm and La Plata Museums. The exchange list in this department now includes the Museums of London, Paris, Berlin, Munich, Stuttgart, Tübingen, Frankfurt, Darmstadt, Basel, Prague, Lyons (City and University), Stockholm, Christiania, Moscow, Bucharest, Bologna, Stellenbosch, Adelaide, Buenos Aires, La Plata, and the Universities of Yale, Princeton, Michigan, Kansas, California, the National Museum and others.

Finally, in earnest of the cordial relations existing between this institution and the Senckenberg Museum of Frankfurt, the directors of that museum have recently notified us of their decision to present to us a splendid skeleton of *Mystriosaurus*, a marine crocodile of the Jurassic Period. This will be an important addition to the series of fine skeletons of

extinct marine reptiles of Europe which have been acquired chiefly through exchange and gift.

The most important additions to the exhibition series are the skeletons of *Cryptoclidus*, a Plesiosaur or marine reptile of the Jurassic Period, and of *Camptosaurus*, an American relative of the *Iguanodon* of Europe; a fine skull and jaws of the great Horned Dinosaur, *Triceratops*, and a skull of *Mastodon*. A number of important skeletons or groups are ready for exhibition or are in course of preparation. Of these the group of four great Ground Sloth skeletons (completed) and skeletons of a small ancestral Ground Sloth and of the peculiar extinct Ungulates, *Toxodon* and *Macrauchenia* (in preparation) are designed for the South American exhibit in the new hall soon to be occupied. A skeleton of the clawed ruminant, *Agriochærus*, and a panel mount of five skeletons of *Stenomylus*, an extinct Cameloid, have been completed for the Fossil Mammal Hall. For the Dinosaur Hall the skeleton of the Toothed Bird, *Hesperornis*, and the "Dinosaur Mummy" are completed; those of the primitive reptile, *Diadectes*, and the primitive amphibian, *Eryops*, of the Permian Period, are nearly completed; the *Tyrannosaurus* group, two giant carnivorous dinosaurs with their prey, is well under way, and work has begun on a mountable skeleton of the Horned Dinosaur, *Triceratops*.

In all the more important recent exhibits of this department the object has been, by grouping and selection of characteristic poses and by adding suitable accessories, to increase their interest and teaching value. This method, widely adopted for exhibits in recent zoölogy, appears to be equally successful in the exhibition of fossil vertebrates. With collections of the size that those of this department have attained, it appears important to aim at quality rather than quantity in its exhibits and to show a few impressive and instructive groups rather than a much larger number and variety of individual specimens.

A series of four large wall panels for the Tertiary Mammal Hall, the gift of Mr. J. P. Morgan, Jr., illustrating faunal life scenes in that period, has been designed and the preliminary drawings completed by Mr. Knight, under direction of Professor Osborn.

Mr. Chubb has continued his work upon modern osteology, especially of the horse, and has several important preparations completed or in progress.

The most important publication of the year from this department is Professor Osborn's "Age of Mammals," published by the Macmillan Company, in which for the first time the results of the great activity of recent years in collecting and research upon fossil mammals have been brought together in popular form. This work has been accomplished through the aid of the Research and Publication Fund. No adequate text-book on this subject hitherto has existed, and the need for one has been frequently urged. "The Orders of Mammals," by Dr. Gregory, an able and philosophic study of the relationships of the various large groups of mammals, living and extinct, issued as Vol. XXVII of the *Bulletin*, also has been very favorably received. Studies of the *Tyrannosaurus* skull and the *Trachodon* mummy by Professor Osborn, upon the Toothed Birds by Mr. Brown, upon Permian Vertebrates by Dr. Case and Dr. Broom, upon Sabretooth Tigers and Primitive Rodents by Dr. Matthew, have been completed, and other important research work is in progress.

In consequence of the heavy demands upon Professor Osborn's time as President, Dr. Matthew has been appointed active Curator, Professor Osborn taking the title of *Curator Emeritus* and continuing to direct, as formerly, the general policy of the department, while relieved of its executive detail. Mr. Barnum Brown has been appointed Associate Curator of Fossil Reptiles, and Mr. Walter Granger, Associate Curator of Fossil Mammals; these appointments are a well merited recognition of their successful exploration work and efficient and loyal coöperation in the various activities of the department. The department is also fortunate in the addition of Dr. W. K. Gregory to its regular staff.

LIVING REPTILES, BATRACHIANS, LIVING AND EXTINCT FISHES

BASHFORD DEAN, Curator; LOUIS HUSSAKOF, Associate Curator

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Professor Bashford Dean served as Curator until April and then

handed the department over to Dr. Louis Hussakof, who took charge of the fossil fishes. The care of the living fishes was assigned to Mr. Nichols, under the supervision of the Director, and that of the living batrachians and reptiles to Miss Dickerson, also under the supervision of the Director.

LIVING FISHES.—Early in March the operations of the yacht "Tekla," which had been cruising in Florida waters for several weeks under command of Messrs. Alessandro and Ernesto Fabbri, came to an end. Through the kind interest of the Messrs. Fabbri, the Museum received by gift collections of fishes made during this trip, chiefly under the direction of Mr. Nichols. The Museum also received as a gift from the Messrs. Fabbri the moulds of a large cub shark and of a fourteen-foot saw-fish, both of which have been largely remodeled and cast and are now displayed in the Corridor of Recent Fishes.

Through the generosity of Mr. Cleveland H. Dodge, the department was enabled to send for a period of seven weeks (middle of March to the end of April) an expedition to Moon Lake, Mississippi, for the purpose of collecting materials for an exhibition group of that singular ganoid, popularly known as the paddlefish. The expedition succeeded beyond all expectation. The specimens were collected, the necessary color studies and photographs made and moulds of fish in various attitudes prepared. The entire material now awaits preparation into a group. This expedition was in charge of Dr. Louis Hussakof, who acted under the general direction of Professor Dean and was ably assisted in the field by Mr. Dwight Franklin of the taxidermist staff of the Museum.

The summer's fishing trip of Mr. Russell J. Coles, of Danville, Virginia, may also be regarded, in a way, as a Museum expedition, for it resulted in the gift to the Museum, by Mr. Coles, of a valuable collection of fishes from the North Carolina coast, including several forms which are exceedingly rare and one (a batoid shark, *Mobula ölfersi*) which was previously known from but two examples.

Among the important exhibits, already installed or in course of installation, may be mentioned the large cub shark and the fourteen-foot saw-fish, referred to above, also a nine-foot sword-

fish, the gift of Mr. George McKesson Brown. Other preparations, including a model of the Japanese frilled shark, *Chlamydoselachus*, and of a tunny are under way and not far from completion.

The identification and cataloguing of recent fishes has made very satisfactory progress and work on the study collections has steadily progressed.

Mr. Nichols has prepared a list of the species of fishes occurring within fifty miles of New York City. This will undoubtedly be of great help in the work of the department in selecting recent fishes to be introduced into the exhibition, and will be invaluable when it becomes possible to have an especial "local" collection.

The unidentified "lantern fishes" in the Museum's collection have been worked up by Professor Charles H. Gilbert of Stanford University, but are not yet published.

Mr. Nichols has now in hand a collection of mackerel-like fish from Java which he is identifying for the United States National Museum.

FOSSIL FISHES.—By the aid of the Dodge Fund, the Museum acquired a valuable collection of the primitive fossil fishes, known as Arthrodira, which was brought together in the course of a number of years by Mr. Peter A. Bungart, of Lorain, Ohio. The collection comprises sixty pieces, including several unique specimens of great scientific value.

Dr. Hussakof has devoted a considerable portion of his time during the past year to cataloguing, revising and rearranging the study collection of fossil fishes.

The fishes of the Permian Period and the Silver Sharks (*Chimæroids*) of the Chalk Period, in the Cope collection, have been restudied and the results embodied in two scientific papers, one of which is in press and the other nearly ready for publication.

The fossil fish exhibit has been improved by the addition of several specimens, including a cast of a remarkable "Placoderm" from the Old Red Sandstone of Scotland, *Homosteus milleri*; and its popular interest has been enhanced by the addition of maps and labels. An exhibit to illustrate the



THE "BUSHMASTER." One of the longest and most venomous of the poisonous snakes of the New World, and supposed to be the only species of Crotaline snake that lays eggs. This model was cast in wax by Mr. Dwight Franklin and colored by Mr. Thomas Bleakney, from a specimen presented by the New York Zoological Park, through the courtesy of Mr. Raymond L. Diltmars



evolution of the lungfishes, to consist of a series of seven models of fishes in bas-relief, is in course of preparation.

LIVING REPTILES AND BATRACHIANS.*—In exhibition work there has been progress on a synoptic series, especially in those directions in which live material could be obtained, and reference must be made to the courteous help of the New York Zoölogical Park and of the New York Aquarium in loans and gifts of such material for color study and casts. In this series emphasis has been put not only on identification and classification, but the representative forms are shown also in action and sometimes in a simple habitat so that additional facts are presented in life history, habit and adaptation to environment.

The preparation of wax casts from plaster moulds, the animals being posed in active positions from life, has been very largely the method of the work, and the results display accurate life form and texture. The final illusion has been given by coloring directly from living animals. That the work has resulted in setting before the visitor to the Museum the beginning of a collection of lifelike amphibia, forms hitherto shown in alcoholic specimens only, and the beginning of a similar series of reptiles, is due largely to the excellent craftsmanship of the preparators, Messrs. Dwight Franklin and Thomas Bleakney, to Mr. F. Blaschke in those cases where the forms were modeled instead of cast directly, and to Mr. G. C. Bell in some dozen cases where complex piece moulds were necessary. The total number of casts and models for the synoptic series, completed or nearly so, is eighty-eight.

There is in preparation also a series of skeletons. These are posed in life positions and show not only osteological facts but also emphasize facts of popular interest, such as the spreading of the ribs to form the hood of the cobra. These skeletons, to the number of eighteen, have been prepared by Mr. Adolph Elwyn of the Department of Physiology.

A series of groups to cover the herpetology of North America, as the Habitat Bird Groups cover the ornithology,

* Report prepared by Mary C. Dickerson, Assistant Curator of Herpetology.

has been planned and work has progressed on three until they will soon be ready to assemble. The total number of casts made for these groups is eighty-seven, making a grand total for the synoptic series and casts of one hundred and seventy-five. The groups are as follows:

First, a group to show some of the common batrachians and reptiles of a summer pond in the coastal region of the north-eastern United States, with the bullfrog especially prominent. The plant accessories for this and the other groups under way have been made by Mr. Patch and other assistants in the department of preparation. Fourteen wax casts of bullfrogs are ready to take their places in this setting. They have been cast and colored by Mr. Franklin. They teach as far as possible the general biology of the frog, covering the questions of life in water and air. Painted turtles, adult and young, for this group have been cast by Mr. Franklin and colored by Mr. Bleakney. The second of the groups will present a study of the toads of southern New England in May. Fifteen toads of two species, *Bufo fowleri* and *Bufo americanus*, have been cast in wax by Mr. Franklin and colored by Mr. Bleakney. The positions and activities chosen present forcefully the habits of the toad. Secondary in interest are green frogs, common tree-toads, painted turtles and water-snakes. The third group will show wood frogs, Pickering's hylas, spotted turtles and ribbon-snakes. Fourteen wood frog casts, seven hyla casts and two casts of spotted turtles are completed. In addition to these three groups twenty-four casts are completed as a partial equipment for a southern group.

Research on the relationships of certain specimens of Bufonidæ of the United States and on the ecology, general biology and taxonomy of the Urodela of North America has progressed, though slowly because of the demands of other work.

A short field expedition was made into southern Massachusetts in July for collections and study relating to the bullfrog group. Much material for the accessories was obtained and many photographic studies were made. The field trip planned to South Carolina for work on an alligator group had to be postponed because of pressure of work in other lines.

Work has progressed on a reference catalogue of the collection of amphibia and reptiles which is to be moved into a well-equipped fifth floor room for greater convenience in the work. Negotiations are pending for important exchanges with scientific institutions. Much valuable material has been acquired and catalogued through the generosity of the Cleveland H. Dodge Fund and through other gifts, especially those from the New York Zoölogical Park and the New York Aquarium.

LIVING INVERTEBRATES—DARWIN HALL

HENRY EDWARD CRAMPTON, Curator

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—Substantial progress has been made in all the varied lines of activity in which the department is engaged. The several exhibition halls have been developed, successful field work has been carried on, the study collections have been considerably augmented, while at the same time scientific investigations by members of the staff have been continued with success. Through its recent reorganization the department is now composed of three divisions. The first of these, under the immediate supervision of Mr. Miner, is concerned with the general invertebrate collections, the Darwin Hall and the preparation room. The second, in charge of Curator Gratacap, deals with the collections of molluscs and with the exhibition Hall of Molluscs. The entomological collections as a whole, together with the Hall of Insect Life and of Local Insects, are under the general charge of Dr. Lutz, whose staff of assistants has been materially strengthened by the addition of Mr. Grossbeck, appointed August 1, 1910. Mr. Beutenmüller is in immediate charge of the Lepidoptera.

For the furtherance of his service to the Museum, and also in connection with his own research, during the past summer Curator Crampton visited numerous museums and zoölogical institutions in England, France, Belgium, Holland, Germany, Austria and Italy. Especially profitable was an additional visit to the Oceanographic Museum at Monaco. The present plans for the further development of the department, as regards

explorations and the collection, study and exhibition of invertebrates, consequently have been formulated on the basis of a fuller acquaintance with scientific institutions and scientific men in Europe and America, with museum methods, and with the problems and methods of field exploration.

INVERTEBRATES IN GENERAL.—The synoptic series in the Darwin Hall has been amplified by a series of nine models and twenty-five alcoholic specimens. The policy of installing biological exhibits like the Cold Spring Harbor Group has been continued and two striking groups are now approaching completion. One of these presents an association of annelid worms as they occur on the shore of Devil's Foot Island, Woods Hole, Massachusetts. The second gives a typical association of submarine animals occurring on the piles of a wharf. Additional groups of a similar nature are projected. The value of such exhibits is realized in their presentation of the biological conditions under which typical invertebrates exist. Of a still more general nature are projected exhibits designed to illustrate variation, heredity, distribution and similar phenomena of evolution.

During the year the study collections of invertebrates have been thoroughly overhauled, reclassified and permanently installed in fireproof cases, the work being completed in the case of six phyla. The remaining groups will be similarly treated during the coming year. The study collections have been increased by numerous gifts as well as by the work of the Museum's collectors. Mr. Miner secured a wide series of invertebrates from the coasts of Massachusetts and Maine. Professor Treadwell obtained a valuable collection of annulates from Dry Tortugas, Florida. Dr. Hussakof and Mr. Franklin collected myriapods, spiders, ants and other forms in the course of their work in Mississippi for the Department of Ichthyology. Dr. Lutz also obtained various invertebrates during his entomological work. The collections of echinoderms, crustaceans and other marine types made by Dr. Crampton in the South Seas have also been incorporated in the study series.

Mr. Miner, assisted by several members of the preparation



COLD SPRING HARBOR GROUP. Invertebrate life of a Long Island shore, as seen at half-ebb tide



room staff, spent over two months in field work on the coasts of Massachusetts and Maine in order to add to our general collections and also to make observations, photographs and drawings of detailed items for use in constructing habitat groups of seashore life for the Darwin Hall.

Dr. Crampton has several publications nearly ready for printing: these are the first instalment of a monograph on "The Distribution and Evolution of Polynesian Snails," a paper on "Natural Selection in Lepidoptera," a book on "The Doctrine of Evolution" (Hewitt Lectures of Columbia University), and a paper on "The Heredity of the Single and Double-brooded Characters in *Cynthia*." The Catalogue of Spiders by Dr. Petrunkevitch is now in process of printing by the Museum.

MOLLUSCS.—The accessions of principal importance in this division during the past year have been an interesting and useful gift by Mr. A. D. Gabay of a series of polished shells (for the most part of the sea abalone or *Haliotis*), and the purchase of a few land shells from Jamaica and of a group of very beautiful polished pearl-bearing fresh-water clams from the Middle West.

A great deal of time has been expended in making preparations for the occupation of the new Hall of Molluscs, wherein will be more clearly shown and elucidated the habits, biology, evolution and distribution of these most variously conditioned and contrasted animals. Attention may be called to the advantages of devoting a single room to a study storage collection, in which would be contained, as far as possible, a complete systematic series of all the species in the present collection, which is a composite of almost half a dozen large assemblages of shells and in which, indeed, none of the numerous accessions made in the last eight years has been incorporated.

Literary work in the section of Molluscs has been confined to the beginning of a work on the marine shells of the eastern United States.

HALL OF LOCAL INSECTS AND INSECT BIOLOGY.—The most striking feature in the entomological work of 1910 has been

the growth of the Local Collection now under the custody of the New York Entomological Society, due to the continued cordial relations between the Society and the Museum. The accessions by gift to this collection are only an imperfect indication of the work the Society has done, as members have given liberally of their time and experience in naming specimens and working out other scientific problems in connection with the insect fauna of the vicinity of New York City. In addition, it has been the privilege of the Museum to aid in the work of the local entomologists by furnishing a much appreciated "home" on the north side of the exhibition hall and by the loan of literature and specimens for their studies.

The Museum itself has added to the Local Collection from the Newcomb purchase and by numerous field trips within fifty miles of New York City. A valuable supplement to the specimens of local insects is a collection of plants and notes concerning the feeding habits of insects, which has been given by Dr. E. B. Southwick. It is proposed to install this collection in Dr. Lutz's office where it will be available and convenient to any student who wishes to determine what plant it is upon which he has found an insect, what other insects feed upon that plant or what other plants that insect feeds upon. The largest additions to the general insect collection have been the Tower collection of Mexican insects, which is deposited with the Museum, and the Sauter collection from Sumatra. Negotiations have been completed for the purchase of the Williston collection of tropical American Diptera. By securing this collection the Museum will become an important center of dipterology, as it already has many types in this order.

The work of getting the general collection of insects into shape is making definite progress, thanks to the additional assistants who have been available during the past few months. The Hymenoptera, Diptera and Orthoptera have been arranged as far as is profitable in view of the fact that for the most part they are uncatalogued and in great part unidentified; the other orders are not yet arranged even in this preliminary way. About twenty thousand specimens have been catalogued. A large number of identifications has been made, chiefly by outside assistance. This latter task is necessarily slow, as

much of the identified material which we have for comparison has not had the taxonomy brought up to date.

During the summer Dr. Lutz carried on extensive field work in the region around New York City. At a conservative estimate he obtained about twenty thousand insects belonging to at least fifteen hundred species. In this work Dr. Lutz was fortunate in having the cordial coöperation of many noted entomologists, among whom are Messrs. Sleight, Davis, Leng, Love, Pollard, Harris, Schaeffer, Watson and Wintersteiner. The results of this work are of high importance not only for the survey of our surrounding territory but also for the larger problems involving a comparison of the local fauna with insects of other regions of the United States, Mexico, Central and South America.

The development of the Hall of Insect Life and of Local Insects has progressed along the lines laid down last year with extremely satisfactory results. When fully installed, the exhibits in this hall will provide the student with a complete outline of entomology and of insect biology; this cannot fail to be of great service to the public and to the educational system of New York City.

Dr. Lutz has completed a monograph dealing with experimental work upon *Drosophila*; this is now in the hands of the Carnegie Institution for printing. Mr. Beutenmüller has continued his work upon the North American species of insects that produce galls; three papers have been published, and others are in preparation, as well as an extensive monograph on the *Catocala*. Professor Wheeler's splendid work on "Ants" has appeared. This remarkable volume reflects great credit upon the author and also upon the department and the Museum, through his connection with the latter as an Honorary Curator.

GEOLOGY AND EXTINCT INVERTEBRATES

EDMUND OTIS HOVEY, Curator

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The principal accessions during the past year have been in the line of general and economic geology rather than invertebrate palæontology. Mention should be made of a large

stalagmite and an abundance of other material from the walls of a cave opened in the course of ordinary operations in the Copper Queen Mine, Bisbee, Arizona, during the past summer. The material was collected under the direction of the Curator for the purpose of constructing a cave in the Hall of Geology, and has been presented to the Museum by the Copper Queen Consolidated Mining Company. Other important acquisitions are the Knowles meteorite, a mass of nickel iron 18 inches long and 14 inches high, weighing 355 pounds, from Knowles, Oklahoma, a unique mass found in 1903; a 218-pound mass of the siderolite form of the Brenham meteorite, being the second largest mass of this phase known, and a beautiful slice of El Inca, Peru, an iron meteorite showing excellent Widmanstätten figures.

The Curator spent about a month in the field in Arizona for the purpose of making studies for the preparation of the Copper Queen Mine model, which is to be the gift of Dr. James Douglas. He took with him a map maker, a photographer and a preparator, who spent several weeks gathering the data needed for the construction of the model, in addition to those furnished by the engineering and geological staff of the Copper Queen Consolidated Mining Company.

Some important changes have been made in the arrangement of the material in care of this department. The Ward-Coonley collection of meteorites (which is on loan at the Museum) has been removed from the Hall of Geology and placed in the corridor next west of the foyer. The general Museum collection of meteorites has been transferred from the Department of Mineralogy to this department and has been installed in six metal-framed cases in the foyer. In addition to this we have installed the new Knowles meteorite, the newly acquired mass of the Brenham meteorite and the El Inca meteorite in the foyer. The specimen of El Inca is a polished slab showing the entire section of the meteorite, and it has been mounted in its proper position in a bisected model of the entire mass, forming a noteworthy addition to the series. These changes in installation have brought together in two contiguous rooms the best series of meteorites in this country and one of the best in the world.

A giant specimen of *Inoceramus*, more than four feet across, from the Niobrara Chalk beds of Kansas, has been carefully restored as far as the material permitted and has been placed on exhibition.

The smaller of the two specimens of glacial grooves from Kelly's Island, which were obtained in the fall of 1909 with the aid of the Dr. F. E. Slocum Fund, has been squared up and mounted at the south end of the Hall of Geology.

In the main Hall of Geology, metal-framed cases have been installed, as an experiment with reference to the recasing of the entire hall. On account of the taking of the south central hall of the building (what has been the Mineral Hall for the past ten years) for the exhibition of Quaternary mammals, etc., it has been decided to reverse the arrangement of the specimens in the Hall of Geology and have the historical series begin at the south end instead of the north end as at present. Work upon this change will be begun in January.

The Curator retained the editorship of the *American Museum Journal* through the issue of the May number, and then was relieved of the duty. He was ably assisted in this editorial work by Miss Mary C. Dickerson, who has since been sole editor of the *Journal*.

CHANGES IN THE STAFF.—On 31 December, 1909, after more than thirty-two years of active service, Professor R. P. Whitfield was retired from the curatorship of this department and made its *Curator Emeritus*. The full care of the department was assigned to the present Curator beginning with 1 January, 1910, although the official appointment was not made until the time of the Annual Meeting of the Board of Trustees. After a lingering illness of several weeks, Professor Whitfield died at Troy, N. Y., on 6 April. He was a remarkable man in many ways. Although he had had practically no school training, his mind was naturally so methodical in its workings, his faculties of observation were so keen and his memory for places, dates and form so retentive that he became one of the foremost palæontologists of his generation and rendered invaluable service to the Museum, par-

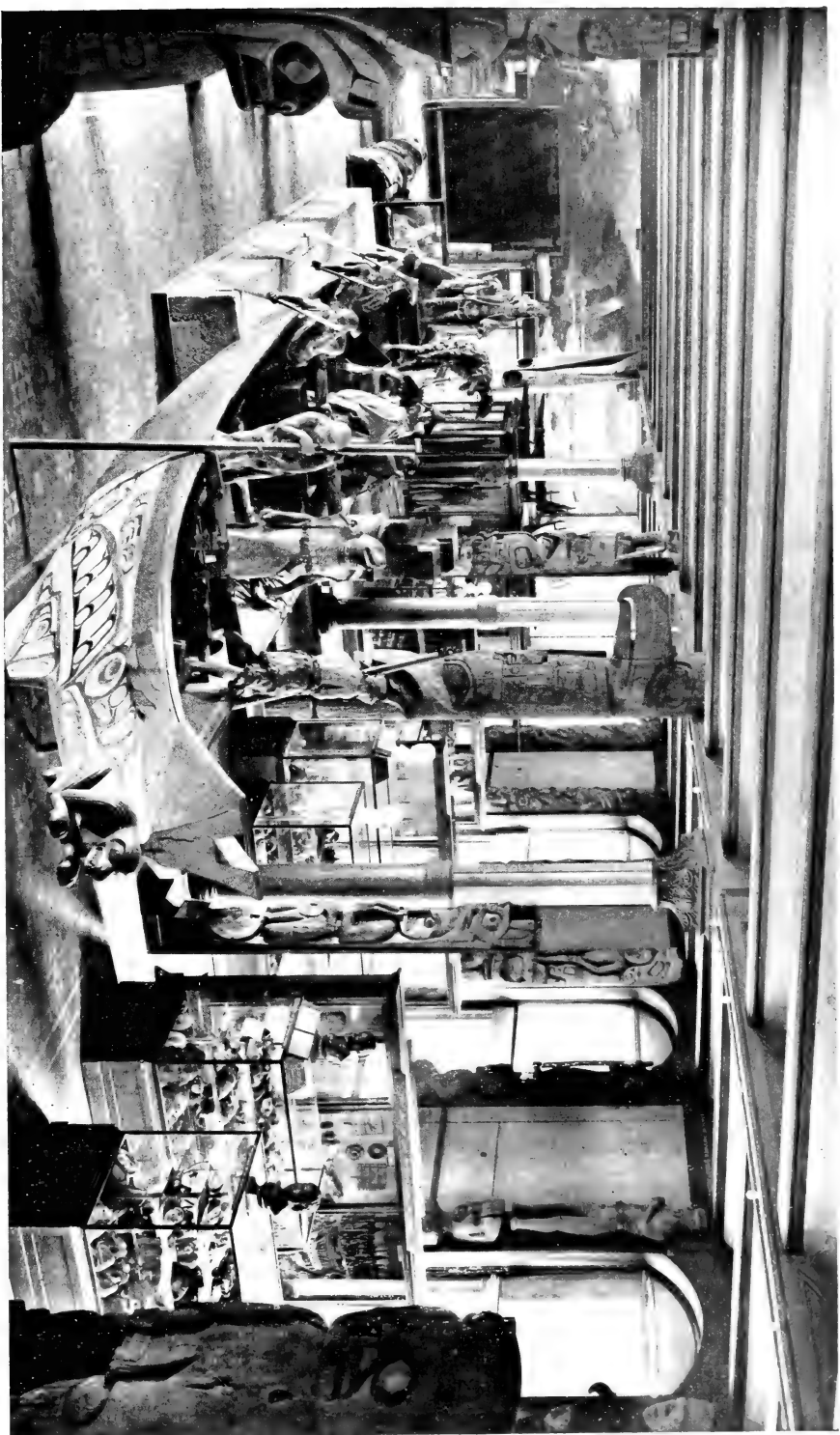
ticularly with reference to the identification, labeling and care of the great Hall collection of fossils. He is greatly missed in the Museum.

LIVING AND EXTINCT RACES OF MEN

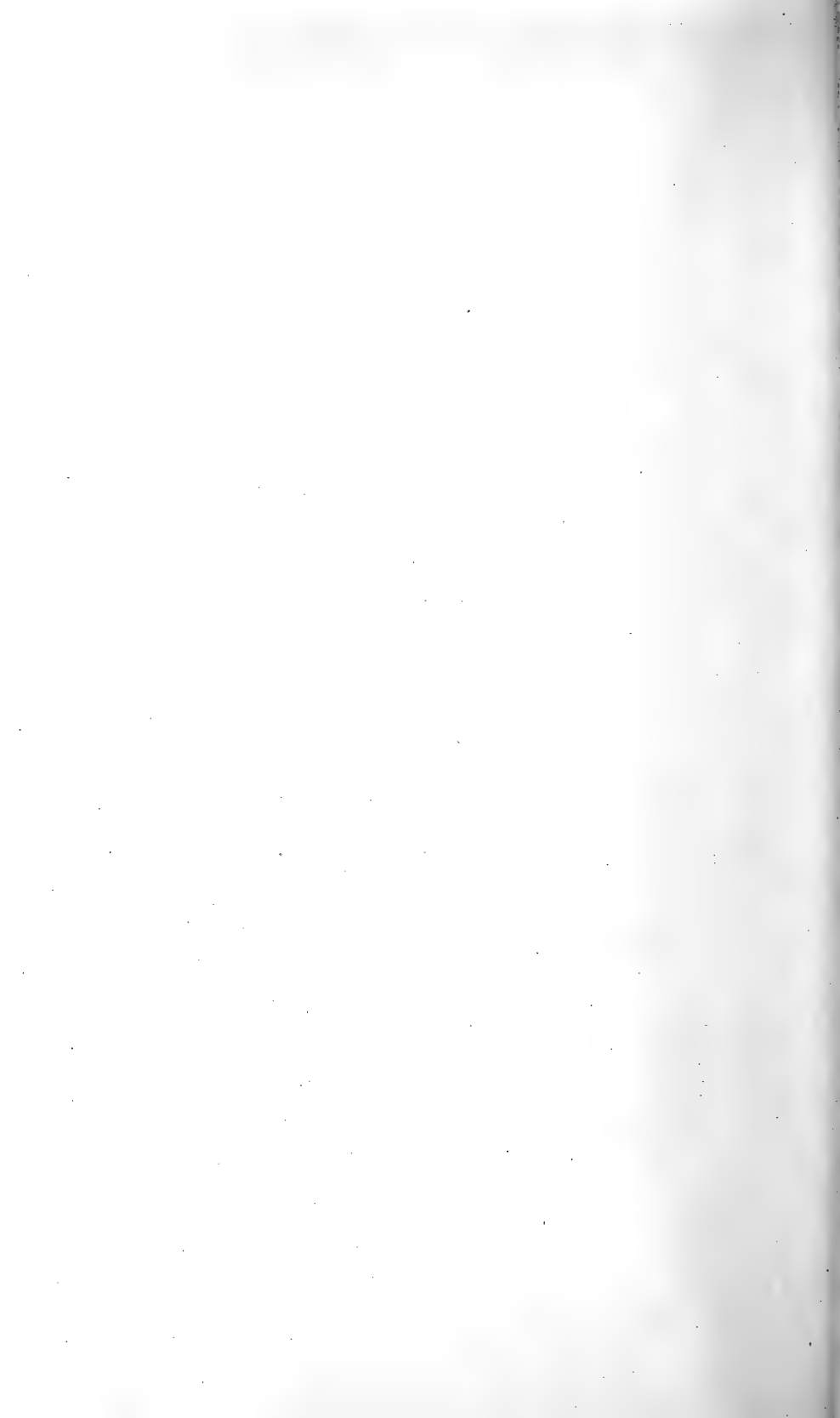
CLARK WISSLER, Curator

DEPARTMENT OF ANTHROPOLOGY.—This has been an exceptional year in the acquisition of large and important collections. Mr. J. P. Morgan presented the Lenders collection of costumes and decorated objects from the various Indian tribes in central North America. This is a very complete and extensive collection and especially valuable as an exhibition series for that area. A large collection from the Hopi Indians made by Rev. H. R. Voth was purchased by authorization of the Appointive Committee on Primitive Peoples of the Southwest, of which Mr. Archer M. Huntington is Chairman. This collection contains many of the older and rarer pieces illustrating Hopi ethnology. From Mr. Anson W. Hard was received a large series of Saltillo and Chimayo and other native fabrics from southwestern United States. The pieces from the Chimayo are of the older type, examples of which have not been manufactured for many years, these Indians being now practically extinct. A special collection of Navajo blankets was presented by Mrs. Russell Sage. By purchase was acquired the Starr Congo collection made by Professor Frederick Starr during two years' exploration in Central Africa; the Benedict Bagobo (Philippine) collection made during three years' exploration by Miss Laura E. W. Benedict, and the Tefft American Indian collection presenting a large series of objects, especially from tribes of the Eastern Woodlands, the result of several years' collection and selection by Mr. Erastus T. Tefft.

Among the important collections made by members of our staff are those from the various divisions of the Apache and the Navajo by Associate Curator Goddard; collections illustrating the material culture and arts of the various Rio Grande Pueblo villages by Assistant Curator Spinden; collections from the Papago and other Indian tribes of Arizona by Curator Wissler, all of which were made under a grant from the Committee on Primitive Peoples of the Southwest. In



THE HAIDA CANOE (more than sixty-four feet long) in the North Pacific Hall of The American Museum of Natural History



connection with the systematic work among Indians of the Plains under the direction of the Committee on Indians of the Plains, of which Mr. Archibald Rogers was Chairman, a collection representing the general ethnology of the Crow Indians was brought together by Assistant Curator Lowie; a collection from the Hidatsa and other Village Indians was made by Assistant Curator Lowie and Rev. Gilbert L. Wilson, and a collection illustrating the ceremonies and medicine practices of the Menomini Indians also a special collection from the Seminole Indians of Florida were made by Assistant Skinner.

Under a special grant from the Committee on Primitive Peoples of the Southwest, collection and investigation were carried on among the Apache, Navajo and Pima tribes and the Rio Grande Pueblos. Dr. Goddard spent several months among the several divisions of the Apache, the results of which will appear in a special publication. Dr. Spinden continued the work of last year on material culture among the Rio Grande Pueblos, giving special attention to the historic aspects of the ceramic art. Miss Kissell is visiting the Papago and the Pima tribes of Arizona investigating the textile arts.

Under the general appropriation for North American Research the systematic work of former years was continued among the Northern Plains tribes. Dr. Lowie spent the summer among the Crow and Village Indians, giving special attention to the men's societies. Rev. Gilbert L. Wilson visited the Hidatsa. Mr. Alanson Skinner took up the work of former years among the Menomini, particularly the unusual ritualistic development and medicine practices still extant. Under the direction of the Curator, Mr. D. C. Duvall gathered new data on the ceremonies of the Blackfoot Indians. Dr. J. R. Walker made some progress with the collection of native manuscripts from Dakota Indians.

During the year three new ethnographic halls were added to the general series: one for Africa and two for North America. The African exhibit presents, so far, a representative series from the Congo region. To this will soon be added collections from other parts of the continent. By means of several life-size figures and a series of mural sketches, the

effectiveness and force of this exhibit have been increased. For North America two general culture areas now have fair representation—the North Pacific coast and the Southwest. An entire hall is now given over to the nomadic and sedentary peoples of southwestern United States and northern Mexico; the Emmons and other collections for the tribes of southern Alaska and western British Columbia have been rearranged and provided with new cases; the Hall of Mexican and Central American Archæology has been moved to the second floor. On the fourth floor progress has been made with a hall for the South Sea Islands and another for the Philippines. A series of mural panels for the North Pacific Hall and a number of plaster figures for a canoe group are nearing completion.

The formal statements of research by the staff are published in a special series entitled "Anthropological Papers." During the year the Curator issued "The Material Culture of the Blackfoot Indians," in connection with which there was a general comparative review of corresponding results in our systematic survey of the area. Associate Curator Smith issued an archæological survey of the Yakima Valley, with comparative notes on the whole Columbia region. He also prepared for immediate publication a full report on excavations in north-eastern Kentucky, demonstrating the similarity between the aboriginal culture in that part of the State and the so-called Fort Ancient area of Ohio. A number of minor studies, based upon collections received during 1909, was issued under the editorship of Assistant Curator Lowie, among which may be mentioned descriptive notes on the Winnebago and Cherokee (Skinner) and some new points on the Central Eskimo (Waterman). Dr. Aleš Hrdlička of the National Museum made a detailed study of skulls and other parts of skeletons from the Central Eskimo, pointing out some new and significant relationships.

For future publication the Curator completed a manuscript treating of investigations into the social organization of the Blackfoot Indians. Assistant Skinner has ready for publication an ethnological study of the Eastern Cree. Associate Curator Goddard is now engaged on the ethnology of the Apache tribes and Assistant Curator Lowie on the Crow and Village Indians.

PHYSIOLOGY

RALPH W. TOWER, Curator

DEPARTMENT OF PHYSIOLOGY.—Much of the time of the preparator, Mr. Elwyn, has been occupied in completing work which has been requisitioned by other departments. Some time, however, has been devoted to perfecting the device designed to illustrate the mechanism of respiration. The apparatus is composed of an artificial thorax, constructed from glass, and supplied with a rubber diaphragm. Within this thoracic cavity is suspended a lung, so prepared that it has retained its elasticity. By a mechanical device the diaphragm is made to expand and contract, and thus cause the alternate expansion and contraction of the lung as in normal breathing. Another apparatus illustrating the passage of a nerve impulse over a sensory fiber to the brain and return over a motor fiber has been designed; the same device will also show the phenomenon of reflex action.

The preparation of one hundred and thirty-six skeletons and eight hundred and forty-three skulls, large and small, has been completed during the year. Particular attention has been given to the osteological preparation of fishes, amphibians and saurians intended for exhibition by the Department of Ichthyology and Herpetology; in this work the digestion method has proved unusually effective.

The equipment in the preparation room at the present time is quite inadequate, and it is hoped that some change may soon be made to improve these unfavorable conditions.

The department has received in the flesh one hundred and eleven specimens from the Central Park Menagerie, fifty-six from the Zoölogical Society, and nineteen from other sources, making a total of one hundred and eighty-six animals.

PUBLIC HEALTH

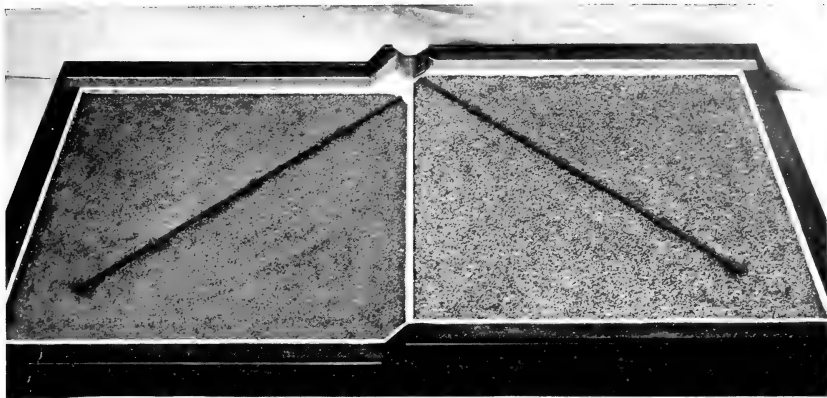
CHARLES-EDWARD AMORY WINSLOW, Curator

DEPARTMENT OF PUBLIC HEALTH.—The widespread interest in the Tuberculosis Exhibit, which was held at the Museum in 1908-1909 with an attendance of more than a million, demon-

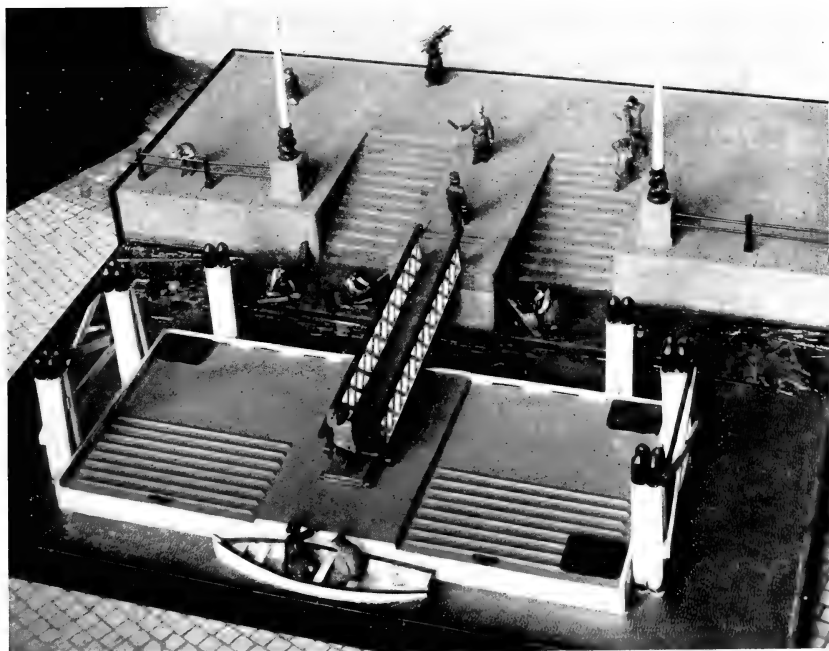
strated the practicability of having a department in the Museum which should have for its function the presentation of matters pertaining to public health. Primarily, it was the popularity of the Tuberculosis Exhibit, combined with the increased public attention which is being given to sanitation, water supply and other municipal problems of this nature, which induced the Trustees to establish a Department of Public Health in the Museum.

The work of this department began the first of September, 1910. A bacteriological laboratory has been equipped with facilities for keeping under cultivation living bacterial species in what might be termed a "museum collection." This is the first attempt in this country to standardize these forms of life through museum methods. Arrangements have been made with the leading laboratories in New York, Chicago, Baltimore, Washington and Boston for obtaining specimens of the organisms in their possession. The department will act as a central bureau for the preservation of cultures of pathogenic and non-pathogenic bacteria (particularly of types of new forms and varieties), and for their distribution to corresponding laboratories and schools and other institutions which may desire them.

The principal work of the department since its institution has been devoted to the preparation of an exhibit of sewage disposal models, to illustrate present conditions in regard to the pollution of the harbor waters of New York and the methods available for the safe and inoffensive disposal of city waste. This subject was selected because the Metropolitan Sewerage Commission of New York was to make an exhibit at the Museum this winter, and it was felt that the department could do a useful work in supplementing the charts of the Commission with graphic models. The fourteen models which have been prepared form a fairly complete presentation of the most important aspects of the subject, and constitute a suitable nucleus for a permanent Museum exhibit on the subject of sewage disposal. A *Guide Leaflet* has been prepared in connection with this exhibit, which it is hoped may be of service in elucidating the principles underlying the task of the protection of river and harbor waters.



DOUBLE CONTACT BEDS FOR THE PURIFICATION OF SEWAGE
Model in The American Museum of Natural History



PICKING UP POLLUTED DRIFTWOOD ON THE STEPS AT BATTERY PARK
Model in The American Museum of Natural History



To coöperate with the Curator, President Osborn has invited the following well-known scientific men to serve as an Appointive Committee for 1911:

Dr. SIMON FLEXNER, Director of the Rockefeller Institute of Medical Research.

Mr. JOHN M. GLENN, Director of the Sage Foundation.

Mr. J. WALDO SMITH, Chief Engineer of the Board of Water Supply.

WOODS AND FORESTRY

MARY C. DICKERSON, In Charge

Work has progressed in the arrangement of the trees of the Jesup Collection in natural groups or families with the specimens of market value made prominent in these groups, also on the work on wax models of leaves, flowers and fruits, and on comprehensive descriptive labels. The department has extended its services to many commercial and private interests in and about New York City for identification of woods, and to high schools in the formation of outlines for study of the trees in the Jesup Collection.

Through the courtesy of the United States Forest Service, Doubleday, Page & Company, and the J. Horace McFarland Company, collections of valuable tree and forest photographs have been obtained to be used in the Forestry Hall for sepia enlargements and colored transparencies. Plans are in hand for increasing the usefulness of the hall at this time when forestry is to all people a question of national importance, by adding correlated exhibits in the alcoves between the cases of the Jesup Collection. These will illustrate forest conservation with effects on soil erosion and soil fertility, practical work in growing trees, as well as the value of trees for public health—thus embodying the original interests of Mr. Jesup.

The department has in press a *Guide Leaflet, Trees and Forestry*, to accompany the Jesup Collection. It presents the status of the forest conservation question in 1910, gives elementary facts concerning the life and structure of a tree,

the structure of wood and the growth of trees, everywhere putting emphasis on the market woods. It has also a chapter on the identification of trees in winter.

In addition to regular departmental work, the associate editorship of the *American Museum Journal* and *Guide Leaflets* was carried until June, when the editorship was assumed.

THE LIBRARY

RALPH W. TOWER, Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS.—To establish a library of natural history was one of the chief concerns of the founders of this Museum and accordingly provision therefor was included in the contract of 1877 with the City. During the first thirty years the library did not grow apace with other departments of the institution. It is true that during this period many and valuable private collections were presented to it, but apparently no sustained effort was made to combine them into a practical unit either by revision or accession. During the last decade enthusiasm has increased, several scientific societies have deposited their books in our custody, and altogether a serious attempt has been made to make this library one of the most comprehensive and complete of its kind in the country.

The present library represents the collections of the New York Academy of Sciences, The New York Microscopical Society, The Linnæan Society of New York, The American Ethnological Society and The American Museum of Natural History, which total in scientific works some 40,000 volumes and 20,000 pamphlets. It is important to note here that each pamphlet is bound, indexed and takes its place on the shelf together with the other volumes, thus becoming an accessible and efficient work of reference.

The assembling under one roof of the libraries of these scientific institutions has secured a very important and valuable series of the publications of the learned societies of the world, a collection which is rapidly gaining a leading position in America. This section of the library is maintained primarily by exchange and much has been accomplished during the

last five years in perfecting the incomplete files; this success is due in equal measure to the diligence of the Assistant Librarian and to the favor with which most of the foreign institutions receive our requests. The needs in this branch of the library are confined in the most part to the volumes of the early years, dating in many instances to the eighteenth century, which can be obtained only by purchase.

The most pressing need undoubtedly is the addition of numerous standard works in natural history, which are important to both the student and the general reader. There is no department in the Museum that is not handicapped by the lack of these works, most of which are out of print and can be purchased only as they happen to appear in the foreign markets. The appropriation of special funds for the purchase of these classics is urgently requested, since each year makes them more scarce with the consequent rise in value; for this reason such accessions must be considered one of the very best assets of the Museum.

The shelf-room of the library has been overcrowded for many months, and it is a delight to report that more space, continuous with the present stack-room, has been planned for immediate use. Another welcome addition is the proposed Faculty Room, where all the new natural history literature can be placed for the use of the various Curators. To equip a reading room with all the popular and non-technical books relating to natural history, open at all times to the visitor, is a project which the Curator has contemplated for several years. The expense of such an undertaking would not be burdensome, but the equipment should be placed on one of the exhibition floors where it would be readily accessible. It is believed that such a room would be much used and of important educational value.

During the year important gifts have been made to the library, the most noteworthy of which were contributed by Professor J. J. Stevenson, Professor Henry Fairfield Osborn, Mr. William G. DeWitt, Mrs. C. L. Weeks, and particularly Mr. Cleveland H. Dodge, who has supplied all of the publications of the Carnegie Institution pertinent to our subject. For these and all other gifts the library is greatly indebted.

PUBLICATIONS

J. A. ALLEN, Editor

The current publications of The American Museum of Natural History consist of the *Annual Report*, the *Bulletin*, the *Memoirs*, the *Anthropological Papers* and the *American Museum Journal*.

The *Bulletin* is a strictly scientific publication in which are published the shorter articles embodying the results of the research work of the various departments of the Museum. The papers composing it are less voluminous and of more general interest than those which appear in the *Memoirs*. The *Bulletin* was founded in 1881, and twenty-eight volumes have been issued.

The *Memoirs*, like the *Bulletin*, are strictly scientific, but are devoted to special articles requiring more exhaustive treatment. They have been published at irregular intervals since 1893. Ten complete volumes and parts of four others have been issued.

The *Anthropological Papers* are similar in character to the *Bulletin*, but are devoted exclusively to the results of field work and other research conducted by the anthropological staff of the Museum. The publication of these papers was commenced in 1907, six volumes having been issued up to the present time.

The *American Museum Journal* is a popular record of the progress of the Museum, and was first published in 1900. It is now in its eleventh volume.

Complete sets of the *Bulletin* and of the *Memoirs*, bound or unbound, may be procured by addressing the Librarian. A standard cloth binding has been adopted for those desiring the publications in this form. No complete set of the *Journals* can be furnished.

The publications of the present year include Volumes XXVII and XXVIII of the *Bulletin*, Volumes IV, V and VI of the *Anthropological Papers*, Volume X of the *Journal*, and Part 1 of Volume XII and Part 1 of Volume XIII of the

Memoirs. The total amount expended on publications for the year was \$13,769.06.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOOLOGY

- James A. G. Rehn. "On some Orthoptera from Porto Rico, Culebra and Vieques Islands." *Bull.* XXVIII, pp. 73-77, 1 text fig.
- Charles T. Brues. "Some Parasitic Hymenoptera from Vera Cruz, Mexico," *Bull.* XXVIII, pp. 79-85, 1 text fig.
- William Beutenmüller, "The North American Species of *Neuroterus* and their Galls." *Bull.* XXVIII, pp. 117-136, pls. viii-xiii.
- William Beutenmüller. "The North American Species of *Aylex* and their Galls." *Bull.* XXVIII, pp. 137-144, pl. xiv.
- William Beutenmüller. "The North American Species of *Aulacidea* and their Galls." *Bull.* XXVIII, pp. 253-258, pls. xxiv-xxvi.
- William Morton Wheeler. "Three new Genera of Myrmicine Ants from Tropical America." *Bull.* XXVIII, pp. 259-265, 3 text figs.
- T. D. A. Cockerell. "Fossil Insects and a Crustacean from Florissant, Colorado." *Bull.* XXVIII, pp. 275-288, 4 text figs.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- J. A. Allen. "The Black Bear of Labrador." *Bull.* XXVIII, pp. 1-6.
- J. A. Allen. "Mammals from the Athabaska-Mackenzie Region of Canada." *Bull.* XXVIII, pp. 7-11.
- J. A. Allen. "Mammals from Palawan Island, Philippine Islands." *Bull.* XXVIII, pp. 13-17.
- J. A. Allen. "Additional Mammals from Nicaragua." *Bull.* XXVIII, pp. 87-115.
- J. A. Allen. "Mammals from the Caura District of Venezuela, with Description of a new Species of *Chrotopterus*." *Bull.* XXVIII, pp. 145-149.
- J. A. Allen. "Collation of Brisson's Genera of Birds with those of Linnæus." *Bull.* XXVIII, pp. 317-335.
- D. G. Elliot. "On the Genus *Presbytis*, and 'Le Tarsier' Buffon, with Descriptions of two new species of *Tarsius*." *Bull.* XXVIII, pp. 151-154.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- William K. Gregory. "The Orders of Mammals." *Bull.* XXVII, pp. 1-525, 32 text figs.
- Frederick W. True. "Description of a Skull and some Vertebrae of the Fossil Cetacean *Diocotichus vanbenedeni* from Santa Cruz, Patagonia." *Bull.* XXVIII, pp. 19-32, pls. i-v.

- W. D. Matthew. "On a Skull of *Apternodus* and the Skeleton of a new Artiodactyl." *Bull.* XXVIII, pp. 33-42, pl. vi, 5 text figs.
- W. D. Matthew. "On the Osteology and Relationships of *Paramys*, and the Affinities of the Ischyromyidae." *Bull.* XXVIII, pp. 43-72, 19 text figs.
- W. D. Matthew. "The Phylogeny of the Felidae." *Bull.* XXVIII, pp. 289-316, 15 text figs.
- John Treadwell Nichols. "A Note on *Siphostoma pelagicum* (Osbeck)." *Bull.* XXVIII, pp. 155-157, 1 text fig.
- John Treadwell Nichols. "A Note on the Identity of *Caranx forsteri* Cuvier and Valenciennes." *Bull.* XXVIII, p. 159.
- John Treadwell Nichols. "On two new Blennys from Florida." *Bull.* XXVIII, p. 161.
- E. C. Case. "New or little known Reptiles and Amphibians from the Permian(?) of Texas." *Bull.* XXVIII, pp. 163-181, 10 text figs.
- E. C. Case. "The Skeleton of *Pacilospondylus francisi*, a new Genus and Species of Pelycosauria." *Bull.* XXVIII, pp. 183-188, 3 text figs.
- E. C. Case. "Description of a Skeleton of *Dimetrodon incisivus* Cope." *Bull.* XXVIII, 189-196, pls. xv-xix, 5 text figs.
- R. Broom. "A Comparison of the Permian Reptiles of North America with those of South Africa." *Bull.* XXVIII, pp. 197-234, 20 text figs.
- Walter Granger. "Tertiary Faunal Horizons in the Wind River Basin, Wyoming, with Descriptions of new Eocene Mammals." *Bull.* XXVIII, pp. 235-254, pls. xx-xxiii, 6 text figs.
- Barnum Brown. "The Cretaceous Ojo Alamo Beds of New Mexico, with Description of the new Dinosaur Genus *Kritosaurus*." *Bull.* XXVIII, pp. 267-274, pls. xxvii-xxix, 7 text figs.
- Russell J. Coles. "Observations on the Habits and Distribution of certain Fishes taken on the Coast of South Carolina." *Bull.* XXVIII, pp. 337-348.

DEPARTMENT OF ANTHROPOLOGY¹

- Robert H. Lowie. "The Assiniboine." *Anthrop. Papers*, IV, pp. 1-270, pls. i-iii, 17 text figs.
- Robert H. Lowie (editor). "Notes concerning new Collections." *Anthrop. Papers*, IV, pp. 271-337, pls. iv-viii, 42 text figs. Contributors: Robert H. Lowie, Alanson Skinner, C. W. Mead, Harlan I. Smith, T. T. Waterman, William C. Orchard.
- Clark Wissler. "Material Culture of the Blackfoot Indians." *Anthrop. Papers*, V, pp. 1-175, pls. i-viii, 103 text figs.
- Aleš Hrdlička. "Contributions to the Anthropology of Central and Smith Sound Eskimo." *Anthrop. Papers*, V, pp. 177-242, pls. ix-xxii, 2 text figs.
- Harlan I. Smith. "Archæology of the Yakima Valley." *Anthrop. Papers*, VI, pp. 1-171, pls. i-xvi, 129 text figs.

¹The *Anthropological Papers* are edited by the Curator of the Department of Anthropology, Dr. Clark Wissler.

Harlan I. Smith. "The Prehistoric Ethnology of a Kentucky Site."
Anthrop. Papers, VI, pp. 173-235, pls. xvii-lxiv, 1 text fig.

Waldemar Bogoras. "Chukchee Mythology." *Mem.* XII, pp. 1-197.

Waldemar Jochelson. "The Yukaghir and the Yukaghirized Tungus."
Mem. XIII, pp. 1-133, pls. i-vii, 1 map.

II. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

The steadily increasing number of Members of the Museum is an index of the spreading interest in the development of the institution, and the contribution of Members is an important item of income.

Members enjoy many privileges which cannot be readily granted to non-subscribers. Among these are the series of special lectures, admission to the laboratories and work-rooms, where may be seen the methods used in mounting material for exhibition, and the service of an instructor when Members and their friends visit the Museum. Recently a room for the use and comfort of Members has been set aside and will be equipped and furnished during the coming year.

We believe, however, that those who, as Members, subscribe to the Museum are actuated not by the returns which they receive from their subscription, but by their civic pride in an institution which they consider is doing an important educational work and is worthy of support.

Continuous efforts are being made to increase the membership and any assistance from Members by the nomination of their friends will be greatly appreciated.

Full information regarding membership will be furnished by the Secretary, on request.

The new Members number 235, and as the loss through death and resignation is 142, the net gain is 93.

On December 31, 1910, the total membership was 2,456, divided into classes as follows: Patrons, 108; Fellows, 40; Honorary Fellows, 2; Life Members, 469; Sustaining Members, 29; Annual Members, 1,808.

NEW MEMBERS

The following persons were elected Patrons:

HENRY C. FRICK	MRS. RUSSELL SAGE
PRINCESS VILMA LWOFF-PARLAGHY	MRS. JOHN B. TREVOR
OGDEN MILLS	FELIX M. WARBURG

GEORGE W. WICKERSHAM

The following persons were elected Life Members:

F. LOTHROP AMES	WILLIAM ADAMS KISSAM
LARZ ANDERSON	EDWARD DE P. LIVINGSTON
ALLISON V. ARMOUR	FREDERIC A. LUCAS
BENJAMIN WALWORTH ARNOLD	GEORGE GRANT MASON
GEO. F. BAKER, JR.	JOHN G. MCCULLOUGH
LYNFORD BIDDLE	MOSES CHARLES MIGEL
W. LYMAN BIDDLE	ALFRED H. MULLIKEN
MISS ELIZABETH BILLINGS	NATHANIEL CUSHING NASH
J. INSLEY BLAIR	DE LANCEY NICOLL
DICKSON Q. BROWN	T. B. PARKER
RICHARD M. COLGATE	MRS. ANNE W. PENFIELD
C. FORSTER COOPER	CAPT. JOHN J. PHELPS
MARCELLUS HARTLEY DODGE	GEORGE B. POST, JR.
A. RADCLYFFE DUGMORE	HENRY H. ROGERS
ARTHUR D. GABAY	SCHUYLER SCHIEFFELIN
CHAS. W. HARKNESS	R. A. C. SMITH
GEORGE T. HOWLAND, M.D.	COL. ROBERT M. THOMPSON
JOHN SHERMAN HOYT	H. M. TILFORD
THEODORE R. HOYT	WILLIAM PERKINS WADSWORTH
GEN. THOMAS H. HUBBARD	HENRY WALTERS
RICHARD S. HUNGERFORD	MRS. FELIX M. WARBURG
FREDERIC H. KENNARD	PAUL M. WARBURG
D. P. KINGSLEY	MRS. PAUL M. WARBURG
STANTON D. KIRKHAM	MRS. WILLIAM SEWARD WEBB

ALFRED RUTGERS WHITNEY, JR.

The following persons have become Sustaining Members:

FRITZ ACHELIS	JAMES MARWICK
MRS. BENJAMIN BREWSTER	JOHN G. MILBURN
R. R. COLGATE	MRS. C. M. PRATT
CHARLES DE RHAM	D. SCHNAKENBERG
J. B. GREENHUT	FREDERIC S. WELLS
ALFRED E. MARLING	RALPH WURTS-DUNDAS

DECEASED MEMBERS AND CURATORS

It is with a profound sense of our loss that we announce
the death of the following Members and
Curators during the year 1910:

Patrons

RICHARD T. WILSON

Fellows

H. MCK. TWOMBLY

Life Members

JOHN E. ALEXANDRE

SETH BARTON FRENCH

Curators

ROBERT PARR WHITFIELD

The following is the Minute which was adopted at the
meeting of the Executive Committee of the Board of Trustees
on April 27, 1910:

RESOLVED, That the Trustees record with deep sorrow the
death of

ROBERT PARR WHITFIELD,

Curator Emeritus of the Department of Geology and Invertebrate Palæontology, who died on April 6, 1910. Professor Whitfield was appointed Curator of Geology in 1877 and for more than thirty-two years rendered to the Museum faithful and efficient service. He was a recognized authority in his chosen field of science, and for nearly half a century had no superior in this country in the identification of fragmentary invertebrate fossils.

He was singularly devoted to the interests of the Museum and with untiring energy labored to build up the collections under his care. He was a strong advocate of a medium of publication and it was largely through his influence that President Jesup established the Museum *Bulletin* in 1881, to which Professor Whitfield was a frequent contributor.

The Trustees extend to Professor Whitfield's family their deepest sympathy and desire to record their esteem for one who has been so intimately associated with the development of this institution.

III.—FINANCES, MAINTENANCE, ENDOWMENT

As has been the custom for several years, the financial transactions of the Museum have been carried in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 65 to 75, inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

The Treasurer's report is different in form from previous reports in that the net expenditures for the several departments are shown in each account. Formerly the gross expenditures only were given. Under the heading "reimbursements," on the disbursement side of the accounts, will be found the amounts which must be added to the net expenditures of any department to make the gross expenditures of that department.

The following summary will show the general receipts and disbursements for the past ten years:

SUMMARY OF ANNUAL EXPENDITURES FOR ALL PURPOSES, EXCLUSIVE OF SPECIAL FUNDS, 1901-1910		SUMMARY OF TOTAL EXPENDITURES IN TEN YEARS, 1901-1910	
1901.....	\$203,811.27	Total appropriation by City for Main- tenance (10 years)	\$1,625,687.62
1902.....	219,787.14		
1903.....	228,508.78	Total appropriation by Trustees for Maintenance, Col- lections, etc. (10 years)	1,300,813.05
1904.....	235,041.33		
1905.....	233,885.23	Estimated value of Collections dona- ted during past 10 years	2,000,000.00
1906.....	239,597.39		
1907.....	250,779.96		
1908.....	275,419.07		
1909.....	323,369.89		
1910.....	314,879.69		
	<u>\$2,525,079.75</u>		

CITY MAINTENANCE ACCOUNT.—The appropriation by the City in 1910 for this purpose was \$185,757. This sum, however, as in previous years, has been quite inadequate to meet the cost of maintaining the Museum, and the Trustees have drawn on their other funds to the extent of \$43,502.38 to meet expenses which are properly chargeable to the City funds. Such disbursements, however, have been made directly from the

General Account. The City Maintenance Account, therefore, while it shows all of the moneys received from the City, does not show the entire cost of maintenance.

The moneys appropriated by the City for maintenance of the Museum are received and disbursed independently of all other income. Thus the Trustees are in a position to give a strict account of the funds received from the City at any time that it may be desired, and an examination of this account by the City officials is always welcomed. It is obvious that as the successive additions are made to the building and as the older portions of the building deteriorate, larger sums will be required for maintenance.

TRUSTEES GENERAL ACCOUNT.—The growth of the Museum is dependent on the receipts in the General and Special Funds Accounts. The net receipts in the General Account for the year have been \$157,547.78, a sum \$3,529.27 larger than last year's receipts. The principal items of income have been as follows:

Interest on General Endowment Fund.....	\$57,192.50
Interest on Morris K. Jesup Fund.....	52,072.11
Life Members.....	4,700.00
Annual and Sustaining Members.....	18,515.00
Special Contributions of Trustees and others.	4,100.00
Supplementary income from Special Funds.....	9,000.00
Refund in settlement of gas bills.....	1,269.95

In 1909 the Consolidated Gas Company agreed to accept payment on Museum bills at 75 cents per 1,000 rate, and accordingly a check for \$1,269.95 was drawn and delivered to the Gas Company. The City finally issued special revenue bonds and settled all gas bills, including those of the Museum. The Gas Company thereupon returned the Museum's check for \$1,269.95, which was deposited to the credit of the General Account.

MORRIS K. JESUP FUND

The expenditures of the income from the Morris K. Jesup Fund have been made with due regard to Mr. Jesup's wishes, as given in the terms of his bequest. This money has been specifically applied as follows:

- To the purchase of specimens and collections for practically all the departments of the Museum
- To the support of field parties :
 - To Japan for whales
 - To South America for mammals and birds
 - To Montana, Wyoming and South Africa for fossils
 - To Wisconsin, Montana, Florida and the Arctic for work among the Menomini, Crow, Blackfoot, Seminole, Hidatsa and Eskimo
 - To Woods Hole, Mass., for marine habitat groups, and the vicinity of New York for local insect collections
- To mural paintings for the Northwest Coast Hall
- To books for the library
- To scientific publications of the Museum

TRUSTEES SPECIAL FUNDS ACCOUNT.—The total net contributions to this account during the year have been \$71,407.32, the largest sum in recent years. It frequently occurs that valuable collections, which it is very desirable that the Museum should acquire, are offered for sale when it is impossible to purchase them from the regular income; or, there may be some special exploration which should be undertaken immediately. It is then that some patron or group of patrons is sought who will contribute funds for this special purpose and the responses have been most generous. Very important is the part that this supplementary income has played in the development of the Museum. Without such support the Habitat Bird Groups would not have been possible, the Congo Expedition would have been postponed indefinitely, and numerous invaluable collections would have been lost to the Museum.

TRUSTEES PERMANENT ENDOWMENT ACCOUNT.—The total endowment at the close of 1910 was \$2,340,365.49. The Permanent Endowment has been increased by three substantial contributions. Mrs. John B. Trevor has contributed \$5,000. From the estate of Darius Ogden Mills \$100,000 has been received. From the estate of Phebe Anna Thorne the Museum has received \$25,000, to be known as the Jonathan Thorne Memorial Fund, the income from which is to be applied to the development of a Room for the Blind.

Respectfully submitted,

HENRY FAIRFIELD OSBORN

February 13, 1911

President

FINANCIAL STATEMENT

1910

*PERMANENT ENDOWMENT**

Morris K. Jesup Fund	\$1,146,600 00	
General Endowment Fund.....	1,114,750 00	
John B. Trevor Fund.	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
Jonathan Thorne Memorial Fund.....	26,000 00	
	<hr/>	\$2,338,350 00
Uninvested Cash :		
Morris K. Jesup Fund.....		241 19
General Endowment Fund.....		954 30
Jonathan Thorne Memorial Fund.....		820 00
		<hr/>
		<u>\$2,340,365 49</u>

* The income of the Permanent Endowment is the chief source of income of the General Account.

CITY MAINTENANCE ACCOUNT

RECEIPTS

1910

Capital Fund, cash on hand January 1, 1910.....	\$12,950 88	
Department of Parks:		
Account of 1909:		
Telephone, Rental of.....	\$247 31	
General Supplies.....	923 26	
Fuel.....	847 97	
Contingencies.....	30 58	
		2,049 12
		\$15,000 00
Department of Parks:		
Appropriation for 1910:		
Salaries and Wages.....		156,500 00
Telephone, Rental of.....	486 48	
Bills awaiting reimbursement	93 52	
		580 00
General Supplies.....	9,931 85	
Bills awaiting reimbursement	237 15	
		10,169 00
Materials for Repairs and Replacements by Departmental Labor.....	6,058 17	
Bills awaiting reimbursement	441 83	
		6,500 00
Repairs and Replacements by Contract or Open Order.....	534 00	
Bills awaiting reimbursement	216 00	
		750 00
Maintenance of Automobile, including equipment, care and storage of same.....	446 95	
Bills awaiting reimbursement	3 05	
		450 00
Purchase of Furniture and Fittings.....	621 97	
Bills awaiting reimbursement	228 03	
		850 00
Fuel.....	5,907 22	
Bills awaiting reimbursement	2,592 78	
		8,500 00
Contingencies.....		1,458 00
Total net receipts for the maintenance of all departments....		185,757 00
Interest on Credit Balances.....		100 00
Loans.....		4,500 00
		<u>\$205,356 00</u>

Examined and Approved { ANSON W. HARD
GUSTAV E. KISSEL } Auditing
SETH LOW Committee

CITY MAINTENANCE ACCOUNT*

DISBURSEMENTS

1910

Geology and Invertebrate Palæontology.....	\$3,844 58
Mineralogy.....	2,847 80
Mammalogy and Ornithology.....	4,701 05
Vertebrate Palæontology.....	10,011 06
Anthropology.....	9,352 89
Invertebrate Zoölogy.....	8,853 69
Ichthyology and Herpetology.....	3,946 75
Physiology.....	1,236 55
Public Health.....	738 44
Woods and Forestry.....	573 64
Library.....	9,634 89
Public Education.....	4,345 52
Preparation and Exhibition.....	6,837 41
Heating and Lighting.....	2,899 23
Repairs and Installation.....	18,688 81
General Supplies and Expenses.....	9,182 09
Administration.....	68,062 60
Total net disbursements for the maintenance of all departments.....	\$185,757⁰⁰
Interest on Credit Balances transferred to General Account.....	109 ⁰⁰
Loans.....	4,500 00
Capital Fund :	
Cash on hand December 31, 1910.....	11,187 37
Bills awaiting reimbursement from Department of Parks, December 31, 1910.....	3,812 63
	<u>15,000 00</u>
	<u><u>\$205,366 00</u></u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1910*

*The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions.

GENERAL ACCOUNT

RECEIPTS

1910

Temporary Working Fund Capital.....		\$900 00
Cash on hand January 1, 1910.....	\$5,648 62	
Interest on General Endowment Fund.....	57,192 50	
Interest on Morris K. Jesup Fund.....	50,711 00	
Interest on Morris K. Jesup Fund:		
Accrued Interest on Bonds at time of sale transferred from Investment Fund of Special Funds Account.....	1,361 11	
Interest on Credit Balances.....	1,162 35	
Life Members.....	4,700 00	
Annual Members.....	17,840 00	
Sustaining Members.....	675 00	
Sale of Publications.....	542 30	
Sales and Exchanges.....	3,344 95	
Special Contributions:		
Percy R. Pyne.....	2,000 00	
Ogden Mills.....	2,000 00	
Jacob Langeloth.....	100 00	
Special Funds for General Receipts:		
Vertebrate Palæontology Field Funds.....	2,000 00	
Antarctic Exploration Fund.....	5,000 00	
Reserve Fund.....	2,000 00	
Refund to General Receipts, Adjustment of Gas Bills.....	1,269 95	
Total net receipts for the development of all departments.....		157,547 78
Reimbursements:		
Special Funds Transfers:		
Charles E. Slocum Fund.....	100 00	
Horse Exploration Fund.....	200 00	
Primitive Peoples of Southwest Fund.....	2,000 00	
Lenders Collection Costumes Plains Indians.....	15,000 00	
Indian Blanket Fund.....	576 44	
Jonathan Thorne Memorial Fund.....	456 44	
Antarctic Exploration Fund.....	500 00	
General Account:		
Unexpended Field Balances, General Items.....	2,028 39	
City Maintenance Account:		
For payment of bills temporarily charged to General Account pending transfers.....	2,061 76	
		22,923 03
Patrons:		
George W. Wickersham.....	1,000 00	
Henry C. Frick.....	1,000 00	
		2,000 00
Loans.....		8,500 00
		<u>\$191,870 81</u>

Examined and Approved { ANSON W. HARD
GUSTAV E. KISSEL } Auditing
 { SETH LOW } Committee

GENERAL ACCOUNT*

DISBURSEMENTS

1910

Geology and Invertebrate Palæontology.....	\$4,440 50
Mineralogy	398 12
Mammalogy and Ornithology.....	11,528 04
Vertebrate Palæontology.....	13,497 34
Professor Osborn's Research and Publication Fund.	4,774 09
Anthropology.....	23,322 19
Invertebrate Zoölogy.....	7,218 37
Ichthyology and Herpetology.....	1,819 69
Physiology.....	1,263 92
Public Health.....	665 12
Woods and Forestry.....	717 14
Library.....	6,527 89
Publications	12,460 51
Public Education.....	5,822 22
Preparation and Exhibition	11,432 20
Heating and Lighting.....	668 12
Repairs and Installation.....	3,368 66
General Supplies.....	10,801 76
Administration.....	7,731 58
Sales and Exchanges.....	88 00
Interest on Overdrafts	577 23

Total net disbursements for the development of all departments.....

\$129,122 69

Reimbursements which have been deducted from gross
expenditures of the following departments:

Geology.....	\$451 41
Mammalogy.....	218 46
Vertebrate Palæontology.....	216 80
Anthropology	17,843 70
Invertebrate Zoölogy.....	31 86
Ichthyology and Herpetology.....	4 40
Physiology.....	1 90
Library.....	22 50
Public Education.....	456 44
Preparation and Exhibition.....	509 49
Repairs and Installation.....	1,715 42
General Supplies and Expenses.....	1,450 65

22,923 03

Patrons:

Transferred to Investment Fund, Special Funds
Account.....

2,000 00

Interest on General Endowment Fund:

Accrued interest on Bonds at time of purchase
transferred to Investment Fund of Special
Funds Account.....

2,623 61

Interest on Morris K. Jesup Fund:

Accrued interest on Bonds at time of purchase
transferred to Investment Fund of Special
Funds Account.....

12,447 37

Loans.....

8,500 00

Cash on hand December 31, 1910.....

13,354 11

Temporary Working Fund Capital.....

900 00

\$191,870 81

[E. & O. E.]

CHARLES LANIER, Treasurer

NEW YORK, December 31, 1910

* Disbursements of this account are made, as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties and for the support of scientific work.

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

GEOLOGY:

PEARY METEORITES:

Mrs. Morris K. Jesup

\$10,958 33

CHARLES E. SLOCUM FUND.....

100 00

\$11,058 33

MINERALOGY:

MATILDA W. BRUCE FUND:

Interest

605 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 1:

Balance

58 70

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Balance

\$1,828 94

John L. Cadwalader.....

250 00

Mrs. Morris K. Jesup.....

250 00

Miss Caroline Morgan.....

250 00

Henry Clay Pierce.....

500 00

F. Aug. Schermerhorn.....

500 00

Mrs. Harriet L. Schuyler.....

250 00

Mrs. John B. Trevor.....

250 00

Mrs. Robert L. Winthrop.....

250 00

Reserve Fund:

Transfer subscription of Mrs. Louisine W.

Havemeyer.....

250 00

4,578 94

MRS. FRANK K. STURGIS FUND:

Balance.....

63 78

CONGO EXPEDITION FUND:

Balance

699 52

A. D. Juilliard

1,000 00

Charles Lanier.....

1,000 00

J. Pierpont Morgan, Jr.....

1,000 00

William Rockefeller

2,000 00

John B. Trevor.....

2,500 00

W. K. Vanderbilt.....

1,000 00

Reserve Fund:

Transfer subscription of Cleveland H. Dodge.....

1,000 00

10,199 52

CRANDALL OÖLOGICAL FUND:

Balance

885 00

Alfred N. Beadleston.....

25 00

George J. Gould.....

50 00

John S. Huyler.....

25 00

William Church Osborn.....

50 00

W. H. Wolverson.....

25 00

Mrs. Anna Woerishoffer.....

100 00

1,160 00

16,060 94

Carried forward..... \$27,724 27

*SPECIAL FUNDS ACCOUNT**

DISBURSEMENTS

1910

GEOLOGY:

PEARY METEORITES:

Purchase of Peary Meteorites, 2d payment.. \$10,583 33

CHARLES E. SLOCUM FUND:

Transferred to Geology, General Account,
for expenses of Glacial Grooves Exhibit. 100 00 \$10,683 33

MINERALOGY:

MATILDA W. BRUCE FUND:

Purchase of Mineral Specimens..... 605 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND,
SERIES 2:

For expenses of field work and for prepara-
tion of groups..... 1,726 58

MRS. FRANK K. STURGIS FUND:

Purchase and mounting of Birds of Paradise. 60 52

CONGO EXPEDITION FUND:

For expenses of field work, Africa, salaries
of Messrs. Lang and Chapin, and
equipment of expedition..... 8,827 27

_____ 10,614 37
Carried forward..... \$21,902 70

*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

<i>Brought forward</i>		\$27,724 27
VERTEBRATE PALÆONTOLOGY :		
HORSE EXPLORATION FUND :		
Frank K. Sturgis.....	\$200 00	
TERTIARY FAUNAL LIFE SCENES FUND :		
Balance.....	600 00	800 00
ANTHROPOLOGY :		
EAST ASIATIC FUND :		
Balance.....	3,141 75	
BERLIN NORTH AMERICAN FUND :		
Balance.....	78 50	
BOARD OF MISSIONS FUND :		
Balance.....	830 00	
PRIMITIVE PEOPLES OF SOUTHWEST FUND :		
Archer M. Huntington.....	\$5,000 00	
Antarctic Exploration Fund,		
Transfer from above Fund.....	4,500 00	9,500 00
INDIAN BLANKET FUND :		
Anson W. Hard.....	2,000 00	
TEFFT COLLECTION FUND :		
James Douglas.....	500 00	
Felix M. Warburg.....	2,500 00	3,000 00
LENDERS COLLECTION COSTUMES PLAINS		
INDIANS :		
J. Pierpont Morgan.....	15,000 00	33,550 25
INVERTEBRATE ZOÖLOGY :		
ASHOKAN WATERSHED BIOLOGICAL SURVEY		
FUND :		
Balance.....		136 50
ICHTHYOLOGY AND HERPETOLOGY :		
FOSSIL FISH EXPLORATION FUND :		
Balance.....	2,168 25	
Cleveland H. Dodge.....	1,000 00	
Reserve Fund :		
Transfer subscription of Cleveland H. Dodge....	1,000 00	4,168 25
PUBLIC EDUCATION :		
CHILDREN'S ROOM FUND :		
Balance.....	172 97	
A Friend.....	6 00	178 97
TEACHERS' DAY FUND :		
Cleveland H. Dodge.....	100 00	
Adrian Iselin, Jr.....	200 00	
Seth Low.....	50 00	
J. P. Morgan.....	250 00	
Henry F. Osborn.....	100 00	
J. Hampden Robb.....	25 00	725 00
<i>Carried forward</i>		\$66,379 27

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1910

Brought forward..... \$21,902 70

VERTEBRATE PALÆONTOLOGY:

Transferred to Vertebrate Palæontology General
Account for general work of Department..... \$200 00

TERTIARY FAUNAL LIFE SCENES FUND:

Mural Decorations, Department of Vertebrate
Palæontology..... 600 00
800 00

ANTHROPOLOGY:

EAST ASIATIC FUND:

Publication Han Pottery Memoir..... 798 26

BERLIN NORTH AMERICAN FUND:

Purchase of specimens..... 78 50

BOARD OF MISSIONS FUND:

Purchase of specimens..... 375 00

PRIMITIVE PEOPLES OF SOUTHWEST FUND:

For expense of field work..... \$7,055 46
Transferred to Anthropology General Account for
purchase of Hopi Collection..... 2,000 00
9,055 46

INDIAN BLANKET FUND:

Purchase of Blankets..... 1,423 56
Transferred to Anthropology General Account for
purchase of Blankets..... 576 44
2,000 00

TEFFT COLLECTION FUND:

Purchase of Collection, 1st payment..... 3,000 00

LENDERS COLLECTION COSTUMES PLAINS

INDIANS:

Transferred to Anthropology General Account for
purchase of Collection..... 15,000 00
30,307 22

ICHTHYOLOGY AND HERPETOLOGY:

FOSSIL FISH EXPLORATION FUND:

For expenses of field work and purchase of
specimens..... 2,156 49

PUBLIC EDUCATION:

CHILDREN'S ROOM FUND:

Purchase of supplies..... 8 66

TEACHERS' DAY FUND:

Expenses in connection with Teachers' Day,
November, 1910..... 695 00

Carried forward..... \$55,166 41

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

<i>Brought forward</i>		\$66,379 27
PUBLIC EDUCATION— <i>Continued</i>		
JONATHAN THORNE MEMORIAL FUND:		
Interest	\$520 00	1,423 97
PUBLICATIONS:		
JESUP NORTH PACIFIC EXPEDITION		
PUBLICATIONS:		
Balance	604 08	
Mrs. Morris K. Jesup	3,000 00	
		3,604 08
Total net receipts for the development of specific departments.....		71,407 32
RESERVE FUND:		
Balance, subscription of Mrs. Louisine W. Havemeyer.....	250 00	
Cleveland H. Dodge.....	4,000 00	4,250 00
ANTARCTIC EXPLORATION FUND:		
Archer M. Huntington	5,000 00	
Arthur Curtiss James.....	5,000 00	10,000 00
VERTEBRATE PALÆONTOLOGY FIELD FUNDS:		
Henry Fairfield Osborn.....		2,000 00
PENSION FUND:		
Archer M. Huntington		1,000 00
INVESTMENT FUND:		
Balance	1,295 92	
Mrs. John B. Trevor	5,000 00	
Estate of Darius Ogden Mills.....	100,000 00	
Estate of Phebe Anna Thorne	\$10,000 00	
Residuary Estate of Phebe Anna Thorne	15,000 00	
Sale of Bonds	25,000 00	
Redemption of Bonds.....	11,000 00	
Cash on transfer of Bonds	21,050 00	
	131 31	
GENERAL ACCOUNT:		
Transfers, Patronships	2,000 00	
Reimbursement from interest on General Endow- ment Fund of accrued interest on bonds at time of purchase.....	2,623 61	
Reimbursement from interest on Morris K. Jesup Fund of accrued interest on bonds at time of purchase.....	12,447 37	
Reimbursement from interest on Jonathan Thorne Memorial Fund of accrued interest on bonds at time of purchase	63 56	
		17,134 54 180,611 77
REIMBURSEMENTS:		
Primitive Peoples of Southwest Fund	35 34	
Fossil Fish Exploration Fund.....	31 47	
Jonathan Thorne Memorial Fund.....	456 44	
INTEREST ON CREDIT BALANCES:		523 25
		1,053 35
		\$270,845 69

Examined and Approved { ANSON W. HARD
GUSTAV E. KISSEL } Auditing
and Approved { SETH LOW } Committee

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1910

Brought forward..... \$55,166 41

PUBLIC EDUCATION—*Continued*

JONATHAN THORNE MEMORIAL FUND:

Transferred to General Supplies and Expenses amount
advanced for accrued interest on purchase of bonds..... \$63 56 767 22

PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:

Publications of Expedition..... 1,308 55

Total net disbursements for the development of specific departments..... **57,242 18**

RESERVE FUND:

TRANSFERRED TO:

North American Ornithology Fund, Series 2.....	250 00	
Congo Expedition Fund.....	1,000 00	
Fossil Fish Exploration Fund.....	1,000 00	
General Receipts, General Account.....	2,000 00	4,250 00

ANTARCTIC EXPLORATION FUND:

TRANSFERRED TO:

Primitive Peoples of Southwest Fund.....	4,500 00	
Preparation and Exhibition, General Account, for preparation of polar maps.....	500 00	
General Receipts, General Account.....	5,000 00	10,000 00

VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

TRANSFERRED TO GENERAL RECEIPTS, GENERAL ACCOUNT..... 2,000 00

INVESTMENT FUND:

PURCHASE OF BONDS.....	177,235 17	
ACCRUED INTEREST ON BONDS AT TIME OF SALE		
TRANSFERRED TO INTEREST ON MORRIS K. JESUP FUND, GENERAL ACCOUNT.....	1,361 11	178,596 28

REIMBURSEMENTS:

REIMBURSEMENTS WHICH HAVE BEEN DEDUCTED FROM GROSS EXPENDITURES OF THE FOLLOWING SPECIAL FUNDS:

Primitive Peoples of Southwest Fund.....	35 34	
Fossil Fish Exploration Fund.....	31 47	
Jonathan Thorne Memorial Fund.....	456 44	523 25

INTEREST ON CREDIT BALANCES:

EARNINGS TO DECEMBER 31, 1910, TRANSFERRED TO GENERAL ACCOUNT..... 1,953 35

CASH ON HAND DECEMBER 31, 1910..... 17,180 63

\$270,845 69

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, December 31, 1910

LIST OF ACCESSIONS, 1910

DEPARTMENT OF PUBLIC EDUCATION

BY GIFT

H. CHAUNCEY, New York City.

15 Photographs of Swiss Glaciers.

KENNEDY CONKLIN, New York City.

1 Snowy Owl.

JOHN D. CRIMMINS, New York City.

Autograph invitation to President U. S. Grant, to participate in the laying of the Corner-stone of the Museum.

A FRIEND.

Flowering plants, books and games.

G. V. HOLLINS, New York City.

1 Crane.

PHILADELPHIA COMMERCIAL MUSEUMS, Philadelphia, Pa.

Cabinet of Industrial Exhibits.

H. I. PRATT, Brooklyn, N. Y.

1 Large Palm.

CAPT. E. RASON, Reigate, England.

11 Photographs from New Hebrides Islands.

EDWARD ROESLER, JR., New York City.

3 Live Guinea Pigs.

BY EXCHANGE

SIR HARRY H. JOHNSTON, Poling, Sussex, England.

28 Photographs of African material.

BY PURCHASE

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Ill.

25 Negatives illustrating Weaving.

BY LOAN

A. RADCLYFFE DUGMORE, New York City.

60 Negatives of British East Africa.

KERMIT ROOSEVELT, Oyster Bay, L. I.

1200 Negatives of African material, with the privilege of making prints.

DR. LOUIS LIVINGSTON SEAMAN, New York City.

81 Negatives and 50 photographs of the Zambesi country.

MISS VERA SIMONTON, Pittsburg, Pa.

33 Photographs of African material, with the privilege of making negatives.

THROUGH MUSEUM EXPEDITION

279 Negatives obtained during two trips to the southwestern United States by Dr. Pliny E. Goddard.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE
PALÆONTOLOGY

GEOLOGY

BY GIFT

CALUMET AND HECLA MINES CO., Calumet, Mich. (through Mr.
C. H. Benedict).

12 Samples of mill products from Lake Linden, Mich.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.

1 Stalagmite 3 ft. high x $2\frac{1}{2}$ ft. in diameter.

17 Boxes of stalactites, stalagmites, crystals and other wall material
from a cave in the Copper Queen Mine.

15 Specimens of typical ores and minerals from Bisbee.

15 Geological specimens from Mt. Martin, Bisbee.

92 Specimens illustrating the physical geology of the Copper Queen
Mine.

5 Specimens of Native Copper and Cuprite from Bisbee.

DETROIT COPPER CO., Morenci, Ariz.

20 Specimens of ores and rocks from Morenci.

GREENE-CANANEA CONSOLIDATED COPPER CO., Cananea, Mexico.

23 Samples of mill work from Cananea.

JOHN HAYS HAMMOND, New York City.

8 Specimens from the Transvaal gold region, South Africa.

C. M. HARPER, New York City.

1 Specimen of Vanadinite from near Globe, Ariz.

MRS. E. H. HARRIMAN, New York City.

36 Specimens of onyx, marbles and limestones from localities in
the West.

SAMUEL HELLER & SON, New York City.

A series of about 75 specimens and photographs illustrating the
manufacture of synthetic sapphires and rubies.

MOCTEZUMA COPPER CO., Nacozari, Sonora, Mexico.

13 Specimens from the Pilares Mine.

CHARLES PALACHE, New Haven, Conn.

1 Fragment of a large crystal of Fayalite in Pegmatite in Granite
from Rockport, Mass.

OTTO F. PFORDTE, Rutherford, N. J.

7 Specimens of Zincite, Franklinite, etc., from Franklin Furnace and
Ogdensburg, N. J.

SIR ERNEST SHACKLETON, British Antarctic Expedition.

27 Specimens from Cape Royds, Mt. Erebus, Antarctica.

BY PURCHASE

6 Specimens of Quartz crystals and decomposed Granite carrying
Native Gold from mines near Berezov, Russia.

- 1 Specimen of honeycomb Quartz carrying Gold from Berezov, Russia.
- 1 Specimen of Native Silver in Limestone from the McKinley-Darragh Mine, Cobalt, Ontario, Canada.
- 1 Slab showing Trap Dike in Granodiorite from St. Cloud, Minnesota.
- 1 Gold-Quartz nugget from placer in California.
- 1 Large slab of Quincy Pegmatite.
- 1 Slice and a cast of El Inca Meteorite from Peru.
- 1 Large piece of the Brenham Meteorite.
- 1 Entire mass of the Knowles Meteorite.
- 12 Geological specimens from Virgilina Copper District, Halifax Co., Va., and Granville Co., N. C.
- 8 Specimens of Rutile, etc., from Nelson Co., Va.
- 16 Specimens of Native Silver, ores and rock from Cobalt, Ontario.

INVERTEBRATE PALÆONTOLOGY

BY GIFT

BARNUM BROWN, New York City.

- 2 Fragments containing fossil *Teredo* shells from the Tax Hills formation on the Missouri River at Lismas, Mont.

WALTER GRANGER, New York City.

- 7 Specimens of *Macrocyclus spatiosa* Meek and Hayden from Wind River beds, Alkali Creek, Wyo.
- 11 Specimens of *Macrocyclus spatiosa* from the Washakie Basin.
- 2 Valves of *Margaritana rugosa* (?) from the Washakie Basin.
- 60 Unios from the Wasatch formation, Big Horn Basin, Wyo.
- 12 Cerithiums from the Wasatch formation, Big Horn Basin, Wyo.
- 4 *Macrocyclus spatiosa* from the Wasatch formation, Big Horn Basin.

BY EXCHANGE

BURNETT SMITH, Skaneateles, N. Y.

- 28 Specimens from the Manlius Limestone of Onondaga Co., N. Y.

BY PURCHASE

- 2 Rudistes shells from the Kansas Chalk, Trogo Co., Kan.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

MAMMALS

BY GIFT

C. E. AKELEY, Chicago, Ill.

- 6 Bats from British East Africa.

BRITISH MUSEUM (Natural History), South Kensington, London.

- 1 Skull of Weddell's Seal (*Leptonychotes weddelli*) from Ross Sea, Antarctic regions.

BARNUM BROWN, New York City.

2 Specimens of Shrew from Alberta.

N. G. BUXTON, Denver, Colo.

68 Small mammals from vicinity of Denver, Colo.

DEPARTMENT OF PARKS, New York City.

30 Monkeys, 4 Marmosets, 3 Leopards, 2 Lions, 1 Chinese Cat,
1 Coati, 1 Coyote, 1 Polar Bear, 2 Wapiti Deer, 1 Eland,
1 Moufflon, 1 Capybara, 1 Peccary, 3 Opossums.—Total, 52
specimens received in the flesh from the Central Park Menagerie.

JAMES L. CLARK, New York City.

2 Bongo skulls and 1 Bat from Africa.

COLLEGE OF PHYSICIANS AND SURGEONS, New York City.

1 Asiatic Dog.

CAPT. GEORGE COMER, New Bedford, Mass.

1 Shrew from Hudson Bay.

CAPT. M. L. CRIMMINS, U. S. A., Fort Davis, Alaska.

2 Small mammals from Nome, Alaska.

DR. JONATHAN DWIGHT, JR., New York City.

17 Small mammals from western Turkestan.

GAUDIG AND BLUM, New York City.

1 "Mink-martin."

ERNEST INGERSOLL, New York City.

2 Ground Squirrels (*Citellus*, one of them melanistic) from Yukon,
Canada.

MRS. WILLIAM C. DE MILLE, New York City.

1 Marmoset from Venezuela.

A. JOHNSTONE, Brooklyn, N. Y.

2 Small mammals from Staten Island, N. Y.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

1 Cat (*Felis temmincki mitchelli*) from Tibet.

JOHN T. NICHOLS, Englewood, N. J.

3 Field Mice from Oregon.

G. FREDERICK NORTON, New York City.

2 Skins of Glacier Bears from Alaska.

K. V. PAINTER, Cleveland, Ohio.

1 Skeleton of Giant Forest Pig (*Hylocharus*) from Africa.

DR. C. H. TOWNSEND, New York City.

1 Skin of albino Fur Seal.

FRANK WEINBERG, New York City.

1 Siamese Cat.

NEW YORK ZOÖLOGICAL SOCIETY.

1 Black Macaque, 1 Lioness, 1 Tiger, 1 Leopard, 2 Siamese Cats, 1
Paradoxurus, 1 Civet Cat, 1 young Walrus, 1 young Musk-ox,
3 Antelopes, 1 Rocky Mountain Goat, 1 Deer, 1 Wild Ass, 1
Hyrax, 1 Rhinoceros.—Total, 18 specimens received in the flesh
from the New York Zoölogical Park.

BY PURCHASE

480 Small mammals from various parts of North America ; 2 specimens from Nicaragua, 6 from Siam, and 4 Solenodons from San Domingo.

THROUGH MUSEUM EXPEDITIONS

20 Small mammals from Mexico ; 50 from the Dutch East Indies ; 4 skeletons of large Whales, 2 skeletons of small Whales, and 10 skeletons of Porpoises (4 species) from Japan ; 170 specimens from Venezuela.

BIRDS

BY GIFT

MRS. J. E. ALGER, Oyster Bay, L. I.

1 Mounted Mexican Jacana.

B. S. BOWDISH, Demarest, N. J.

6 Small birds, in the flesh.

COURTENAY BRANDRETH, Ossining, N. Y.

1 Mallard Duck, in the flesh.

BRITISH MUSEUM (Natural History), South Kensington, London.

11 Eggs from the Antarctic regions—1 of the King Penguin, 6 of the Black-throated Penguin, and 4 of MacCormick's Skua.

N. G. BUXTON, Denver, Colo.

1 Skin of Western Tree Sparrow, 1 skin of Red-winged Blackbird from Colorado.

FRANK M. CHAPMAN, Englewood, N. J.

1 Screech Owl, in the flesh.

RUSSELL J. COLES, Danville, Va.

1 Sanderling and 1 Snow Bunting, in the flesh, from North Carolina.

GEORGE CROCKER, New York City.

1 Red-shouldered Hawk, in the flesh.

P. M. CUSHING, Larchmont, N. Y.

Old Squaw Duck, in the flesh.

MRS. WILLIAM C. DE MILLE, New York City.

18 Skins of small birds from Merida, Venezuela.

DEPARTMENT OF PARKS, New York City.

2 Rheas, 19 Swans, 2 Egyptian Geese, 1 Herring Gull, 1 American Bittern, 1 Vulture, 4 Eagles, 1 Owl, 1 Peacock, 5 Pheasants, 5 Cockatoos, 2 Macaws, 6 Amazon Parrots, 1 Toucan, 1 Garrulax.
—Total, 52 specimens received in the flesh from the Central Park Menagerie.

DR. JONATHAN DWIGHT, JR., New York City.

98 Miscellaneous bird skins, without data.

LIEUT. G. T. EMMONS, Princeton, N. J.

1 Nest of Baltimore Oriole.

- G. CLYDE FISHER, De Funiak Springs, Fla.
6 Birds from Florida (2 skins, 4 in alcohol).
- L. A. FUERTES, Ithaca, N. Y.
4 Skins, including the type of a new species of *Icterus* from Mexico,
and 1 Hooded Merganser in the flesh.
- DWIGHT FRANKLIN, New York City.
2 Skins of Bee-eaters from Morocco.
- CHAPMAN GRANT, New York City.
1 Skin of Hermit Thrush.
- H. O. HAVEMEYER, JR., Mahwah, N. J.
1 Four-legged Chicken.
- B. F. HOWELL, Troy Meadows, N. J.
1 Mounted Yellow Rail.
- THEODORE R. HOYT, New York City.
1 Mounted Duck, a hybrid between the Mallard and the Pintail.
- JAMES KEMP, New York City.
1 Barred Owl, in the flesh.
- W. DE W. MILLER, Plainfield, N. J.
3 Hawks and 1 Loon, in the flesh.
- HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.
18 Skins of Samoan birds.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
2 Cassowaries, 2 Screamers, 2 Upland Geese, 1 Pelican, 1 Adjutant
Stork, 2 Ocellated Turkeys, 1 Bataleur Eagle, 1 Harpy Eagle,
1 Hyacinthine Macaw.—Total, 13 specimens received in the
flesh from the New York Zoölogical Park.
- DR. L. E. NORFLEET, Tarboro, N. C.
1 Albino Grackle, in the flesh.
- G. FREDERICK NORTON, New York City.
2 Skins of Black Oyster-catcher.
- PEARY ARCTIC CLUB, Brooklyn, N. Y.
1 Nest of Knot, the first known to science.
- MISS PHILLIPS.
1 Double Yellowhead Parrot (*Amazona oratrix*).
- MRS. D. F. PLATT, Englewood, N. J.
1 Hermit Thrush, in the flesh.
- HARRY RAVEN, Bay Shore, N. Y.
1 Night Heron, 1 Merganser, 1 Meadowlark, 1 Sanderling, 1 Plover.
- JENNESS RICHARDSON, Rutland, Vt.
1 Skin of Fish Crow.
- DR. L. C. SANFORD, New Haven, Conn.
5 Ducks from North Carolina and 1 Swan, in the flesh; 2 skins of
Grouse from Alaska; 1 skin of Canvasback Duck.
- DR. THOMAS R. SAVAGE, New York City.
1 Nest of Weaver-bird from Africa.
- E. LEROY THOMSON, Siasconset, Mass.
1 Pomarine Jaeger, in the flesh.

DR. C. H. TOWNSEND, New York City.

14 Skins of rare and interesting birds from the Hawaiian Islands.

E. H. WHITE, New York City.

1 Lory, in the flesh.

BY EXCHANGE

2 Masked Bob-white from Mexico; 1 Gull-billed Tern and 1 Mayan Horned Owl from eastern Mexico; 57 small birds, mostly from Costa Rica; 14 birds from various localities; all skins. 1 Virginia Rail, in the flesh. 10 sets of eggs of North American birds.

BY PURCHASE

155 Skins from China; 46 skins from Siam; 87 skins from New York State; 65 skins, 29 nests and 66 eggs from Panama; 14 skins of large birds from the Arctic regions; 2 Kiwis from New Zealand (*Apteryx australis* and *A. haasti*); 1 egg of *Aepyornis* from Madagascar; 1 skin of *Nyctibius* from Nicaragua.

THROUGH MUSEUM EXPEDITIONS

342 skins and 2 sterna from Borneo, Celebes, Formosa, etc.; 200 skins and a number of nests and eggs from northwestern Arctic America; 111 skins from Yucatan and Vera Cruz; 116 skins from Panama; 11 Rails, in the flesh, from Connecticut.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

BY GIFT

SENCKENBERG MUSEUM, Frankfurt-a-Main, Germany.

Complete skeleton of *Myriosaurus*, a marine crocodile of the Jurassic Period, from Holzmaden in Württemberg.

MASTER CHARLES CARROLL THOMAS, New York City.

1 Mastodon Tooth.

E. C. WATERS, Poughkeepsie, N. Y.

Humerus of large Elk found in glacial drift at Brantford, Ontario.

BY EXCHANGE

MUSEO DE LA PLATA, Argentine Republic.

Series of casts of extinct South American mammals, including the skeleton of *Toxodon* and skull of *Onohippidium*.

UNIVERSITY OF TÜBINGEN, Germany.

Skeleton, uncrushed and nearly complete, of *Ophthalmosaurus*, an Ichthyosaurian marine reptile of the Jurassic Period.

BY PURCHASE

Partial skeleton of a fossil reptile (? Dinosaur) from the Triassic shales of the Newark formation at Fort Lee, N. J.

THROUGH MUSEUM EXPEDITIONS

CRETACEOUS OF MONTANA AND ALBERTA.

Skeletons of a Duck-billed Dinosaur, a small Horned Dinosaur and a large Armored Dinosaur ; parts of skeletons of Carnivorous and Herbivorous Dinosaurs.

PERMIAN OF SOUTH AFRICA.

Skeleton of *Delphinocephalus* and series of skulls of other ancient and peculiar reptiles of the Karroo formation in Cape Colony, collected by Dr. R. Broom.

TERTIARY OF WYOMING.

Collection of fossil mammals of the Lower Eocene from the Big Horn Valley of Wyoming, about 600 catalogued specimens, including a mountable skeleton of the Four-toed Horse and many skulls, jaws and other parts of new or little-known species.

DEPARTMENT OF ICHTHYOLOGY AND
HERPETOLOGY

BY GIFT

CLEVELAND H. DODGE FUND.

Collection of fishes made in Moon Lake, Mississippi, including the Paddlefish, Garpike, and a general collection of local fishes (about 20 species).

Collection of about 120 species of fishes from the Pacific coast, made by Dr. E. C. Starks of Leland Stanford University.

Collection of 65 specimens of Arthrodira from the Cleveland shales of Ohio, made by Mr. Peter A. Bungart.

7 Fishes collected by Mr. W. T. Kinnear in the Old Red Sandstone of Scotland, including *Mesacanthus*, *Ischnacanthus* and *Dipterus*.

1 *Aspidorhynchus acutirostris* from the Lithographic shales of Bavaria.

3 *Xenacanthus* from the collection of Professor Anton Fritsch of Bohemia.

2 Fossil fishes from Dr. F. Krantz, Bonn, Germany, from the Upper Oligocene of Hessen.

11 Fossil fishes from the Upper Devonian of Canada, collected by Mr. Anthony Plourde, including *Eusthenopteron*, *Scaumenacia* and *Bothriolepis*.

A Small slab with numerous specimens of *Prolebias cephalotes* and one *Homosteus milleri*, from Ward's Natural Science Establishment, Rochester, N.Y.

2 Collections of teeth of *Ptychodus* collected in the Cretaceous of Kansas by Mr. Charles H. Sternberg.

ALESSANDRO FABBRI, New York City.

Collection of fishes made by the yacht "Tekla" in Florida waters
and moulds of a Cub Shark and of a Saw-fish.

GEORGE McKESSON BROWN, New York City.

1 Swordfish.

RUSSELL J. COLES, Danville, Va.

Collection of about 77 species of fishes from the coast of North Carolina.

DR. BASHFORD DEAN, Riverdale, N. Y.

A lantern fish (*Mausolius pennanti*).

DEPARTMENT OF ANTHROPOLOGY, transfer.

A pair of shark jaws from the Indian Ocean.

DEPARTMENT OF INVERTEBRATE ZOOLOGY, transfer.

3 or 4 Species of fishes collected in the Ashokan Survey.

5 Small fishes collected by Mr. Harlan I. Smith in Alaska.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, transfer.

1 Skull and one alcoholic specimen of the fresh-water Ling.

OTTO FALKENBACH, New York City.

1 Angler.

DWIGHT FRANKLIN, New York City.

1 Threadfish.

DR. E. W. GUDGER, Goldsboro, N. C.

4 Sea Catfish and a number of Catfish from the coast of North Carolina.

JOHN HISCOX, New York City.

1 Burrfish.

OSCAR T. MACKEY, New York City.

1 Small-mouthed Black Bass.

NEW YORK AQUARIUM, New York City.

About 50 fishes, including a Sailfish, a Wreckfish, an albino Trout
and a Tunny.

JOHN T. NICHOLS, New York City.

20 Species of fishes from the Pacific coast.

PEARY ARCTIC EXPEDITION.

1 Species of Trout.

VICTOR J. RODRIGUEZ, Matanzas, Cuba.

Dried specimens of 1 Batfish and 1 Flying Gurnard.

WILLIAM JAY SCHIEFFELIN, New York City.

1 Amberjack.

NORMAN TAYLOR, New York City.

1 Lionfish.

WILLIAM C. VAN ANTWERP, New York City.

1 Mounted Sailfish.

LAWRENCE WATERBURY, New York City.

1 Mounted Sailfish.

BY EXCHANGE

DEPARTMENT OF FISHERIES, Sydney, New South Wales.

A number of specimens of the Rough-backed Herring, *Potamolosa novæ-hollandæ*.

FREE PUBLIC MUSEUM, Liverpool, England.

1 *Protopterus*, 1 *Periophthalmus*, 1 *Macrurus* and 4 casts of fishes.

ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.

A cast of *Homosteus milleri* and one of *Cladodus neilsoni*.

REPTILES AND BATRACHIANS

BY GIFT

CLEVELAND H. DODGE FUND.

9 *Bufo lentiginosus*, 2 *Rana catesbiana*, 7 *Rana sphenoccephala*, 6 *Engystoma carolinense*, 11 *Scaphiopus holbrookii*, 2 *Amphiuma* and 6 *Manculus quadridigitatus* from Raleigh, N. C.

9 *Bufo lentiginosus*, 24 *Bufo quercicus* and 2 *Siren lacertina* from Florida.

21 *Bufo americanus* from Chicago, Ill.

1 *Amphiuma* from Hale Co., Alabama.

8 *Necturus* from Ithaca, N. Y.

2 *Amblystoma punctatum* from Stamford, Conn.

Development stages of *Necturus maculatus* from Oconomowoc, Wis.

Development stages of *Cryptobranchus allegheniensis* from Pennsylvania.

DR. THOMAS BARBOUR, Cambridge, Mass.

1 *Rana montezumæ* from Mexico.

DANIEL C. BEARD, Flushing, L. I.

1 *Cryptobranchus allegheniensis* from Covington, Ky.

THOMAS BLEAKNEY, Brooklyn, N. Y.

9 *Bufo fowleri*, 3 *Rana palustris* from Yonkers, N. Y.

F. BISHOP, Cambridge, Mass.

1 Spiny-tailed Iguana.

DR. L. C. BUCKLEY, Bangkok, Siam.

1 Lizard skin from Siam.

C. S. BRIMLEY, Raleigh, N. C.

7 *Manculus quadridigitatus* from Raleigh, N. C.

CHARLES CHRISTMAN, New York City.

12 *Rana sylvatica*, 20 *Hyla pickeringii* from Bryn Mawr Park.

WILLIAM T. DAVIS, New Brighton, Staten Island, N. Y.

7 *Bufo americanus* and 1 *Bufo fowleri* from Clayton, Ga.

1 *Bufo fowleri* from Washington.

RICHARD DECKERT, Mount Vernon, N. Y.

12 *Hyla pickeringii*, 8 *Rana sylvatica*.

DEPARTMENT OF INVERTEBRATE ZOOLOGY.

From Ashokan Survey: 5 *Bufo americanus*, 7 *Bufo fowleri*, 7 *Rana catesbiana*, 28 *Rana clamitans*, 56 *Rana palustris*, 1 *Rana sylvatica*, 4 *Hyla pickeringii*, 26 tadpoles of various species; 53 *Desmognathus fusca*, 3 *Desmognathus ochrophæa*, 55 *Diemyctylus viridescens* 16 *Plethodon cinereus*, 1 *Plethodon glutinosus*, 1 *Spelerpes bilineatus*, 1 *Spelerpes ruber*, 1 *Chelydra serpentina*, 1 *Chrysemys picta*, 1 *Cyclophis vernalis*, 6 *Natrix fasciata sipedon*, 3 *Thamnopsis saurita*, 3 *Thamnopsis sirtalis*.

Small collection of Batrachians and Reptiles from the Philippine Islands.

Collection of Batrachians from Colorado Springs.

Collection from localities in New York: 5 *Bufo americanus*, 2 *Rana sylvatica*, 2 *Hyla pickeringii*, 3 *Amblystoma punctatum*, 4 *Desmognathus fusca*, 4 *Plethodon cinereus*, 2 *Plethodon glutinosus*.

3 Lizards from Havana, Cuba.

DEPARTMENT OF PUBLIC EDUCATION OF THE MUSEUM.

1 Hognosed Snake (*Heterodon platyrhinus*).

H. S. DICKERSON, Lafayette, Ind.

7 *Bufo fowleri* from Indiana.

18 *Amblystoma opacum*, 1 *Amblystoma punctatum*, 1 *Desmognathus fusca*, 14 *Diemyctylus viridescens*, 2 *Spelerpes bilineatus* from Providence, R. I.

3 *Autodax lugubris*, 3 *Batrachoseps attenuatus*, 9 *Hyla regilla* from Palo Alto, Calif.

Collection of Salamanders, showing life histories, from California and Rhode Island.

DR. T. B. FORD, Columbia, Miss.

1 Congo Eel (*Amphiuma means*) from Columbia.

DWIGHT FRANKLIN, New York City.

8 *Bufo americanus*, 15 *Diemyctylus viridescens*, 12 *Rana clamitans* and a small collection of Reptiles.

ARTHUR G. HAMILTON, New York City.

4 Painted Turtles (*Chrysemys picta*).

ADAM HERMANN, New York City.

A collection of 35 Lizards from Europe and America.

GNEOMAR VON KROCKOW, Brooklyn, N. Y.

2 Water-snakes (*Tropidonotus fasciatus*) from New York.

SEÑOR PEDRO LOPEZ, Bogota, Colombia.

1 Snake skin from U. S. of Colombia.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

2 Snakes from Samoa.

NEW YORK AQUARIUM, New York City.

1 *Hyla maxima*, 2 *Chrysemys picta*, 1 *Rana catesbiana*, 1 young Alligator, 2 Hawk's-bill Turtles (*Chelonia imbricata*).

NEW YORK ZOÖLOGICAL PARK.

- 1 Green Tree Snake, 1 Hooded Cobra, 1 Australian Carpet Snake (*Morelia variegata*), 1 Indian Rat Snake (*Zamensis mucosus*), 4 young Copperhead Snakes (*Ancistrodon contortrix*), 1 Hognosed Snake (*Heterodon platyrhinus*), 9 young Banded Rattlers (*Crotalus horridus*), 1 Ribbon-snake (*Eutonnia saurita*), 1 Bushmaster (*Lachesis mutus*), 1 European Coluber, 12 young Watersnakes, 2 Spotted Turtles (*Chelopus guttatus*), 3 South American Tortoises (*Testudo elegans*), 9 Surinam Toads (*Pipa americana*).

JOHN T. NICHOLS, Englewood, N. J.

- 5 *Bufo boreas* from Oregon.

W. B. NICHOLS, New York.

Collection of Snakes from Long Island and Cold Spring Harbor.

WILLIAM B. OLNEY, Seekonk, Mass.

- 27 *Bufo fowleri*, 4 *Hyla versicolor*, 10 *Rana pipiens* from Seekonk.

PROF. J. E. REIGHARD, Ann Arbor, Mich.

- 20 *Bufo americanus* from Ann Arbor.

HON. THEODORE ROOSEVELT, Oyster Bay, L. I.

Toad (*Bufo cognatus*) swallowing Salamander (*Amblystoma tigrinum*).

STANFORD UNIVERSITY, California.

- 24 Tree Frogs (*Hyla regilla*) from Palo Alto, Calif.

F. WEINBERG, Long Island, N. Y.

Small collection of Turtles.

BY EXCHANGE

MUSEUM OF COMPARATIVE ZOÖLOGY, Cambridge, Mass.

- 1 *Bufo melanostichus*, 1 *Amblysephalus carinatus*, 1 *Draco volans*,
1 *Dryophis prasinus*, 1 *Mabuia multifaciata*, 1 *Natrix vittata*,
1 *Natrix subminiata*, 1 *Natrix trianguligera*, 1 *Ptychozoon-
kuhli* from Java.
1 *Hyla dolishopsis*, 1 *Dasia smaragdinum* from Sorong, New Guinea.
1 *Rana varians*, Blgr. from Moluccas.

THROUGH MUSEUM EXPEDITIONS

Moon Lake, Mississippi: Small collection of Batrachians and Reptiles secured by Dr. Louis Hussakof and Mr. Dwight Franklin.

Shimidzu, Japan: 1 *Bufo formosus*, 9 *Hyla arborea japonica*.

Secured by Mr. Roy C. Andrews.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

F. D. ALLER, Gatico, Chile.

Archæological collection from Cobija, Chile.

ALLISON T. ARMOUR, New York City.

Head-hunter's knife from Borneo.

FREDERICK BAUER, New York City.

Collection from the Seminole Indians of Florida.

- WALTER H. BEEBE, New York City.
Porcelain brick from Porcelain Tower, Nanking, China.
- DR. H. C. BUMPUS, New York City.
Indian basket from Connecticut and ethnological collection from Mexico, including 18 pieces of pottery.
- T. W. CHURCH, New York City.
Collection of Chinese weapons.
- WILLIAM C. CHURCH, New York City.
Stone idol found at Panama.
- RUSSELL J. COLES, Danville, Va.
2 Potsherds from New River Inlet, N. C.
- COLUMBIA UNIVERSITY, New York City.
2 Stone arrow points found near Aurora, N. Y.
- CONSOLIDATED TELEGRAPH AND ELECTRICAL SUBWAY CO.,
New York City.
Old Indian dugout canoe found near Cherry Street, New York City.
- E. W. DEMMING, New York City.
Ear of sacred corn used in Indian ceremonies.
- ANSON W. HARD, New York City.
Collection of blankets and belts from Mexico and New Mexico.
- BLAIZE LORILLARD HARSELL, Bedford, N. Y.
Painted elk skin.
- MISS MILFORD H. HOAG, New York City.
6 Chinese models.
- DR. J. RAMSAY HUNT, New York City.
Mummy from Catacombs of Guanajuato, Mexico.
- B. T. B. HYDE, New York City.
14 Navajo looms.
- DR. GEORGE F. KUNZ, New York City, and MR. CHARLES HUGH STEVENSON, Washington, D. C.
Shell beads from Pipemaker Creek, Ga., and four hammerstones from Georgia.
- M. F. McCORD, Rush Springs, Okla.
3 Moulds of Indian work on rocks at Rush Springs, Okla.
- HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.
1 Woven mat, 1 grass dress and three pieces of tapa cloth from Apia, Samoa.
- J. PIERPONT MORGAN, New York City,
Ethnological collection from North America. This collection contains a large number of costumes, weapons, utensils and ceremonial objects from the Plains, Navajo and Apache tribes.
- BOSWELL L. MURRAY, Brooklyn, N. Y.
Pipe obtained at Moorehead, Minn.
- MRS. RUSSELL SAGE, New York City.
Collection of blankets and costumes from the Navajo and Moki Indians.

OTTO SCHMIDT, New York City.

5 Arrows from New Guinea.

DR. LOUIS LIVINGSTON SEAMAN, New York City.

12 Pottery vessels and 1 human figure carved in wood from Chepen, Peru.

MRS. E. L. SEIDENSTICKER, South Orange, N. J.

Wax figure of a Mexican potter.

DR. W. J. SINCLAIR, Princeton, N. J.

Steatite cylinder found near Lander, Wyo.

F. H. SLACK, New York City.

Cane from Japan.

DR. HERBERT J. SPINDEN, New York City.

Archæological collection from Burgois Mound, near Bismarck, N. D.,
part of a decorated skin capa from Brazilian Chaco and a cast
of a jade ornament found in Yucatan.

D. C. STAPLETON, Esmeraldas, Ecuador.

Ethnological and archæological collection from Esmeraldas, Ecuador.

JAMES TEIT, Spences Bridge, British Columbia.

Model showing method of attaching string to smooth pebbles used
as net sinkers among the Thompson River Indians.

HENRY UTARD, New York City.

1 Stone idol and two pieces of pottery from Mexico.

E. C. WATERS, Poughkeepsie, N. Y.

Piece of French iron tomahawk from Bramford, Ontario, Canada.

F. WEINBERG, Woodside, L. I.

4 Flower pots and piece of native rope from India.

BY EXCHANGE

WALLACE F. PECK, New York City.

Eskimo drum from St. Michael Island, Alaska.

STATE HISTORICAL SOCIETY OF WISCONSIN, Madison, Wis.

Archæological collection from Wisconsin.

THROUGH MUSEUM EXPEDITIONS

Ethnological collection from the South Sea Islands. Collected by
Mr. Roy C. Andrews.

Ethnological collection from the South Sea Islands. Collected by
Professor Henry E. Crampton.

Ethnological and archæological collections from the San Carlos
Apache, the White Mountain Apache and the Navajo of Arizona.
Collected by Dr. P. E. Goddard. Provided for by Mr. Archer
M. Huntington.

Ethnological collection from the Crow Indians of Montana and from
the Hidatsa Indians at Fort Berthold, N. D. Collected by Dr.
Robert H. Lowie.

Archæological collection from Mexico and Yucatan and ethnological
collection from the Rio Grande Pueblos. Collected by Dr.
Herbert J. Spinden. Provided for by Mr. Archer M. Huntington.

Ethnological collection from the Hidatsa Indians. Collected by Rev. Gilbert L. Wilson.

Ethnological collection from the Pima and Papago Indians. Collected by Dr. Clark Wissler. Provided for by Mr. Archer M. Huntington.

Ethnological collections from the Menomini Indians of Wisconsin and from the Seminole Indians of Florida. Collected by Mr. Alanson Skinner.

BY PURCHASE

Miss M. I. BAYLY, New York City.

Ethnological specimens from Java.

Miss LAURA E. BENEDICT, New York City.

Ethnological collection from the Philippine Islands.

REGINALD PELHAM BOLTON, New York City.

Archæological collection from New York City.

Miss M. A. CAVENAGH, New York City.

Woman's work-basket and wooden object inlaid with shell from Peru.

CAPT. GEORGE COMER, East Haddam, Conn.

Collection of boats, clothing, implements and ornaments of the Eskimo of Southampton Island and west shore of Hudson Bay.

HARRY FOSTER DEAN, Yonkers, N. Y.

Ethnological collection from Africa.

T. E. DONNE, Wellington, New Zealand.

2 Stone idols from New Zealand.

LIEUT. G. T. EMMONS, Princeton, N. J.

114 Baskets from British Columbia.

NICHOLAS GRAY, Unalaska, Alaska.

Collection of boats, sea-otter spears, rain coats and models from Alaska.

M. R. HARRINGTON, Shawnee, Okla.

Ethnological collection from the Comanche Indians.

W. C. HILL, New York City.

Ethnological collection from various localities, including Arkansas and Alaska, South America, Australia, South Sea Islands and Philippine Islands.

Miss KATHERINE MAYO, Cape Cod, Mass.

Ethnological collection from Dutch Guiana.

RALPH MEYERS, Taos, New Mexico.

Collection from Taos Pueblo.

CAPT. WILLIAM MOGG, Point Barrow, Alaska.

Collection from the Eskimo of Banks Land.

EMIL MOSONYI, New York City.

Collection of ethnological specimens from Guatemala.

CAPT. JAMES S. MUTCH, Peterhead, Scotland.

Ethnological collection from Whale Fish Islands, near Disco, Greenland.

- WILLIAM NIVIN, City of Mexico.
Jade ornament of Maya culture.
- T. R. RODDY, Winnebago City, Neb.
Collection from Winnebago Indians.
- ALANSON SKINNER, Staten Island, N. Y.
Collection from the Winnebago and Cayuga Indians.
- SONORA NEWS COMPANY, City of Mexico.
Imitation codex from Mexico.
- F. G. SPECK, Philadelphia, Pa.
8 Specimens from the Ottawa, Chippewa, and Pottawatomie Indians.
- REV. G. W. STAHLBRAND, Brooklyn, N. Y.
Ethnological collection from the Congo.
- PROF. FREDERICK STARR, Chicago, Ill.
Large ethnological collection from the Congo, Africa.
- ERASTUS T. TEFFT, New York City.
Large ethnological collection from North America, in part the gift of Mr. Felix M. Warburg and Dr. James Douglas. This collection contains a large number of specimens from the Woodland tribes and several very interesting specimens from the Southwest tribes.
- B. VITOLO, New York City.
2 Bronze mirrors from China.
- REV. A. R. WILLIAMS, New York City.
Ethnological collection from the Lower Congo, Africa.
- FRED HARVEY, Hopi House, Grand Canyon, Ariz.
Ethnological collection from the Hopi.

DEPARTMENT OF MINERALOGY

BY GIFT

THE MATILDA W. BRUCE FUND.

- 43 Specimens of minerals, including Antimony, Amazon Stone, Beryl (pink), Binnite, Blomstrandine, Calcite, Carnotite, Cerussite, Clinocllore, Corundum, Covellite, Davidite, Enargite, Gadolinite, Galena, Garnierite, Gold, Hambergite, Hyalite, Natrochalcite, Orthoclase, Pearceite, Phenacite, Phenacite (crystal), Pyrite, Pyrrhotite (crystallized), Amethystine Quartz, Seligmanite, Serpentine, Snarumite, Sphalerite, Topaz, Topaz on Orthoclase, Vesuvianite, Wulfenite, Zoisite.

JOHN H. DEANE, New York City.

- 2 Specimens of large green Beryl from Mt. Apatite, Me.

DR. JAMES DOUGLAS, through Mr. G. D. Van Arsdale, New York City. Vanadium and Uranium ores from Utah.

A. D. GABAY, New York City.

- 1 Specimen of Quartz (crystal in the rock), Herkimer Co., N. Y.
1 Box of free crystals (Quartz).

- GEOLOGICAL SURVEY OF GEORGIA, through Mr. S. W. McCallis,
State Geologist.
1 Specimen of Bauxite, Floyd Co., Ga.
- C. C. GOSTLING, New York City.
2 Specimens of Infusorial Earth, Wilkerson, Va.
- C. W. HOADLEY, Englewood, N. J.
1 Specimen of Stilbite, West Paterson, N. J.
- MRS. A. J. HOWELL, New York City.
A miscellaneous assemblage of mineral fragments.
- C. H. JONES, New York City.
3 Specimens of Anthracite Coal with starlike impressions.
- RALPH KIRSH, New York City.
4 Specimens of Cassiterite pebbles (placer), Buck Creek, York, Alaska.
1 Vial of Cassiterite (concentrates), Buck Creek, York, Alaska.
- ROBERT LEE, Brooklyn, N. Y.
1 Specimen China Clay, China.
- R. B. MEYERS, New York City.
1 Specimen Limonite concretion, Forest Hill, L. I.
1 Specimen Pyrite sphere, Little Neck Bay, L. I.
- J. PIERPONT MORGAN, New York City.
1 Large oval-cut gem of Rose Beryl (Morganite), 57½ carats, from Madagascar.
1 Fragment of Rose Beryl (crystal) from Madagascar.
- OTTO F. PFORDTE, Rutherford, N. J.
1 Specimen Pectolite, West Paterson, N. J.
1 Specimen Thaumassite, West Paterson, N. J.
1 Specimen Zinnwaldite, Zinnwald, Saxony.
1 Specimen Patronite, Quisque, Peru.
1 Specimen Red Oxide of Vanadium, Peru.
1 Specimen Chalcopyrite, Bergen Hill, N. J.
2 Specimens Radiated Willemite, Franklin, N. J.
- OTTO SCHMIDT, New York City.
40 Specimens miscellaneous minerals.
- OTTO VEATCH, Atlanta, Ga. (Assistant Geologist, State Survey, Georgia).
1 Specimen Ripidolite, Habersham Co., Ga.
- DR. F. B. VON TEUBER, through Charles W. Mead, New York City.
1 Specimen Gold Sand, San Blas coast, Panama.

BY PURCHASE

- 1 Specimen Cuprite, Bisbee, Cochise Co., Ariz.
1 Specimen Thaumassite, enclosing Heulandite and Apophyllite.
1 Specimen Thaumassite, West Paterson, N. J.
1 Specimen Natrolite, West Paterson, N. J.
1 Specimen Natrolite on Datolite.
5 Specimens Awaruite, Smith River, Calif.

- 1 Specimen Sylvanite, Cripple Creek, Colo.
- 1 Specimen Sylvanite, Transylvania, Hungary.
- 2 Specimens Tourmaline, Pala, Calif.
- 1 Specimen Tourmaline and Albite, Pala, Calif.
- 2 Specimens Calcite, St. Lawrence Co., N. Y.
- 1 Specimen Native Silver, Houghton, Mich.

BY EXCHANGE

ANTON BERGER, Austria.

- 1 Specimen Rhodochrosite, Kapnik, Hungary.
- 1 Specimen Bournonite, Felsobanya, Hungary.
- 1 Specimen Bournonite on Galena, Felsobanya, Hungary.

R. B. GAGE, Trenton, N. J.

- 1 Specimen Alamosite, Alamosa, Mexico.

ALFRED C. HAWKINS, Seewaren, N. J.

- 1 Specimen massive Polydelphite, Franklin Furnace, N. J.
- 1 Specimen Pyroxene, Morris Co., N. J.
- 1 Specimen Serpentine in Dolomite, Morris Co., N. J.
- 1 Specimen Hedenbergite, Shasta Co., Calif.
- 1 Specimen Chalcocite, Franklin, N. J.
- 1 Specimen Biotite, Franklin, N. J.

CHAS. H. JONES, New York City.

- 1 Specimen Aegyrite, Magnet Cove, Ark.

A. L. PARSONS, Toronto, Canada.

- 1 Specimen Native Antimony, West Gore, Nova Scotia.
- 1 Specimen Chalcocite, Tatamagouche, Nova Scotia.
- 1 Specimen Cinnabar, Cherry Creek, Kamloops, B. C.
- 1 Specimen Cobaltite crystals, Cobalt, Ontario.
- 1 Specimen Corundum, India.
- 1 Specimen Erythrite, Creston, B. C.
- 1 Specimen Gold (native), Larder Lake, Ontario.
- 1 Specimen Howlite, Wentworth, Nova Scotia.
- 1 Specimen Kermesite and Stibnite, West Gore, Nova Scotia.
- 1 Specimen Niccolite, Cobalt, Ontario.
- 1 Specimen Pyromorphite, Moyie, B. C.
- 1 Specimen Quartz (blue), Roseland, Va.
- 1 Specimen Scapolite, Cardiff Township, Ontario.
- 1 Specimen Sodalite, Sodalite Creek, B. C.
- 1 Specimen Staurolite, Jordan Falls, Nova Scotia.
- 1 Specimen Ulexite on Gypsum, Wentworth, Nova Scotia.

A. H. PETEREIT, New York City.

- 1 Specimen Phlogopite, Franklin Furnace, N. J.

GEO. O. SIMMONS, Brooklyn, N. Y.

- 1 Specimen massive Sphalerite, Lehigh Co., Pa.

MILTON G. SMITH, New York City.

- 2 Specimens Rhodonite, Franklin Furnace, N. J.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

- J. M. ALDRICH, Moscow, Idaho.
2 Specimens of *Hydrophorus magdalenæ*.
- G. W. J. ANGELL, New York City.
Type and 4 cotypes of *Corymbites weidtii*, type and 2 cotypes of *Elmis columbiensis* from British Columbia; 375 insects from Lavalette, N. J., and 1 specimen of *Megasoma hector*.
- NORMAN ARMOUR, Princeton, N. J.
8 Specimens of Insects.
- H. G. BARBER, Roselle Park, N. J.
A collection of local Hemiptera.
- GEORGE F. BERTHOUD, Waroona, West Australia.
110 Australian Insects.
- THEODORE BITTERMAN, New York City.
1 Centipede from Mindanao, Philippine Islands.
- J. F. BRIZZIE, New York City.
1 Tarantula.
- C. F. CLARK, Havana, Cuba.
1 Lot of Spiders and Insects from Havana, Cuba.
- JAMES L. CLARK, New York City.
6 Vials of Orthoptera, Myriapods, Ants, etc., from British East Africa.
- PROF. T. D. A. COCKERELL, Boulder, Colo.
3 Leaves of *Bouteloua digostachya* with *Targionia graminella* from Leyden, Colo.
- RUSSELL J. COLES, Danville, Va.
1 Lot of Marine Invertebrates.
- WILLIAM T. COMSTOCK, Newark, N. J.
515 Local Insects.
- W. T. DAVIS, New Brighton, Staten Island, N. Y.
A collection of Myriapods and Spiders from Georgia, and a collection of local Carabidæ and Orthoptera.
- DR. BASHFORD DEAN, Riverdale, N. Y.
1 Nautilus trap from Cebu, Philippine Islands.
- R. P. DOW, New York City.
A collection of local Carabidæ.
- G. P. ENGELHARDT, Brooklyn, N. Y.
4 Hippoboscidæ from Philadelphia, Pa., and a collection of local Water-beetles.
- MR. AND MRS. JAS. A. ESTY, Sherman, Me., through J. Pierpont Morgan.
1 Hornets' Nest.
- DR. SPENCER FRANKLIN, Las Juntas, Costa Rica.
2 Insects from Abangarez Gold Field, Las Juntas, Costa Rica.

- A. D. GABAY, New York City.
3 Sponges from Fanning Island, Pacific Ocean.
- J. A. GROSSBECK, New Brunswick, N. J.
425 Local Insects.
- ERNST HÆCKEL, Jena, Germany.
A series of 34 microscopic slides of Radiolaria from various localities.
- THOMAS HALLINAN, Paterson, N. J.
7 *Crioceris* from Erie, Pa.
- E. D. HARRIS, New York City.
50 Cicindelidæ from various localities.
- M. A. HASLEHURST, New York City.
A collection of Seafans, Corals, etc., from various localities.
- GEORGE G. HEYE, New York City, through Mr. S. A. Barrett.
A collection of Insects from Ecuador.
- MASTER WILLIAM HOPFNER, New York City.
26 Coleoptera and 11 Lepidoptera from Rio de Janeiro.
- W. A. HORN, Melbourne, Australia.
2 Crabs (*Phlogius crassipes*) and 1 Spider (*Telphusa transversa*) from Central Australia.
- A. J. HOWELL, New York City.
A collection of Sponges, Corals and other invertebrates from Nassau, Bahama Islands.
- MRS. WARDLEY HUNT, Orange, N. J.
Globe with several hundred Cicada shells.
- DR. R. T. JACKSON, Cambridge, Mass.
2 Specimens of *Strongylocentrotus franciscanus* from Puget Sound.
- G. W. KEMP, New York City.
1 Piece of wood from Bolivia with work of spiders.
- E. KIRBY, Brooklyn, N. Y.
1 Tarantula.
- GNEOMAR VON KROCKOW, Brooklyn, N. Y.
A collection of local Arthropods, Worms and Molluscs.
- DR. G. LAGAI, New York City.
2 Spiders from Corozal, Panama.
- DR. C. W. LENG, New York City.
1 *Omus intermedius*.
- DR. E. G. LOVE, New York City.
A collection of local Carabidæ.
- DR. F. E. LUTZ, New York City.
400 Insects from various localities and 1 Tape-worm (*Tænia saginata*).
- J. R. McLANE, New York City.
Several hundred Lepidoptera from the United States and Europe.
- DR. THEODORE C. MERRILL, Colorado, Tex.
A collection of Insects and Spiders from Texas.
- HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.
1 Bottle of Palolo Worms and 1 Beetle.

- DR. MAX MORSE, Hartford, Conn.
1 *Blabera trapezoidea*.
- F. MUIR, Honolulu, Hawaii.
1 *Peripatus ceramensis* from New Guinea.
- NEW YORK AQUARIUM, New York City.
4 Specimens of Crustacea and 3 specimens of Coral.
- JOHN T. NICHOLS, Englewood, N. J.
2 Goose Barnacles and 3 *Chiton* sp. from Elk Creek, Cañon Beach, Ore.
- CHRISTIAN E. OLSEN, Maspeth, N. Y.
60 Local Coleoptera.
- DR. R. C. OSBURN, New York City.
A collection of local Syrphidæ and Conopidæ.
- DR. A. PETRUNKEVITCH, Montclair, N. J.
1 Spider (*Filistata hibernalis*) from Huntsville, Tex.
- C. R. PLUNKETT, Flushing, L. I.
20 Local Membracids from Flushing, L. I.
- JAMES RICALTON, Maplewood, N. J.
17 Tsetse Flies from Rhodesia, Africa.
- MAJOR W. ROBINSON, West Point, N. Y.
150 Coleoptera from West Point, N. Y.
- W. H. SANDBORN, Mattituck, N. Y.
3 Egg-cases of *Natica heros* and 3 Piddock Clams (*Pholas truncata*) from Mattituck, N. Y.
- C. SCHAEFFER, Brooklyn, N. Y.
Various local Coleoptera.
- ALANSON SKINNER, New York City.
50 Insects from Everglades, Fla., and 36 from Keshena, Wis.
- CHARLES E. SLEIGHT, Ramsey, N. J.
A collection of local Orthoptera and Carabidæ.
- HARLAN I. SMITH, New York City.
A collection of Annulata, Crustacea, Insecta and Mollusca from Alert Bay, Vancouver Island, B. C.
- DR. E. B. SOUTHWICK, New York City.
A collection of Scale Insects from Central Park, New York City.
- STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New Brighton, S. I.
56 Local Lepidoptera.
- P. TANSSEAU, Madagascar.
9 Specimens of Lepidoptera from Madagascar.
- WILL S. TAYLOR, New York City.
1 Spider from Hastings-on-Hudson, New York.
- DR. A. L. TREADWELL, Poughkeepsie, N. Y.
26 Vials of Annulates from various localities.
- F. WINTERSTEINER, Long Island City, N. Y.
472 European Coleoptera.

L. B. WOODRUFF, New York City.

26 Local Odonata.

MRS. C. WUNDER, Passaic Junction, N. J.

200 Insects from Passaic Junction, N. J.

BY EXCHANGE

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

1 Lot of alcoholic Annulates from the Pacific Coast.

STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New

Brighton, Staten Island, N. Y.

26 Insects from Staten Island.

G. W. J. ANGELL, New York City.

4100 Local Coleoptera.

J. W. ANGELL, New York City.

A collection of Coleoptera.

BY PURCHASE

Three jars of *Diopatra cupræa*, *Phascolosoma gouldii*, *Chaetopterus variopedatus* from Woods Hole, Mass.

Two Spiders and 2 Scorpions from Dominica, W. I.

One Lot of Coleoptera, Hemiptera, Orthoptera, Arachnida, Myriapoda, etc., from the Philippine Islands.

One collection of Hymenoptera (including 71 vials of Ants), Diptera, Orthoptera, Arachnida, etc., from Paraguay, South America.

One collection of *Balanoglossus kowalevskii* from Woods Hole, Mass.

One lot of Molluscs, Crustaceans, Echinoderms and Annulates from the Pacific Coast.

48 Microscopic slides of typical Rotifera prepared by Mr. C. F. Rousselet.

A collection of about 1500 Insects from Formosa.

A collection of Fossil Plants and Insects from Florissant, Colo.

THROUGH MUSEUM EXPEDITIONS

One collection of Echinoderms, Crustaceans and other Marine Invertebrates from Samoa. Collected by Prof. Henry E. Crampton.

One collection of Annulates from Dry Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

One collection of Invertebrates from Woods Hole and Nahant, Mass., and Casco Bay, Me. Collected by Mr. Roy W. Miner.

One collection of Myriapods, Spiders, Ants and other Invertebrates from Moon, Mississippi. Collected by Dr. Louis Hussakof and Mr. Dwight Franklin.

One collection of various Invertebrates from the vicinity of New York City. Collected by Dr. Frank E. Lutz.

LEPIDOPTERA

BY GIFT

GEORGE F. BERTHOUD, Waroona, West Australia.

A collection of West Australian Lepidoptera.

W. D. KEARFOTT, Montclair, N. J.

A fine series of *Sarothripa revevana* showing the variation of the species.

WILLIAM SCHAUS, London, England.

A collection of 500 Central and South American Lepidoptera.

BY PURCHASE

A collection of 3500 specimens of North American Noctuidæ.

A collection of Butterflies from Formosa.

A collection of 400 North American Geometridæ.

MOLLUSCA

BY GIFT

Miss ELIZABETH W. CATKIN, New York City.

Miscellaneous collection of shells from Bermuda.

Miss D. F. CRERAND, New York City, through Dr. G. F. Kunz.

Oyster shell (*O. virginica*) with adherent pearl, and 7 loose pearls.

A. D. GABAY, New York City.

11 Polished valves of *Meleagrina margaritifera* ("black lip," "silver lip" and "golden edge").

7 *Nautilus pompilius* (4 cut to show siphuncle).

44 *Haliotes*, polished.

38 *Haliotes*, unpolished.

Specimens of *Cantharidus*, *Trochus*, *Turbo*, *Argonauta*, with aboriginal (?) necklaces of shells, and 86 cut and polished mother-of-pearl (*Haliotis*) ornaments.

1 *Meleagrina* with pearl.

A. DA COSTA GOMEZ, Brooklyn, N. Y.

1 Right-handed *Fulgur perversum* from Florida.

WALTER GRANGER, New York City.

Lymnæa and *Pyramidula*, semi-fossil shells from Shell Creek Cañon, Big Horn Mts., Wyo. (elevation 5000 ft.).

Weathered shells from Red Deer River, 30 miles south of Content, and 30 miles south of Stetler, B. C.

Mrs. M. A. HASLEHURST, New York City.

16 Species of shells, of the genera *Amussium*, *Cassis*, *Chiton*, *Cypræa*, *Fusus*, *Hippopus*, *Lucopina*, *Murex*, *Pteroceras*, *Spondylus*, *Strombus*, *Triton*.

Mrs. EDWARD B. MERRILL, through Liberian Consul, Hon. Edward B. Merrill.

1 Very large specimen of *Achatina achatina*, from West Africa.

P. PARTRIDGE, New York City.

Specimens of local shells from Rye Beach, N. Y.

EUGENE W. PRESBREY, New Rochelle, N. Y.

4 Specimens of *Cypræa exanthema* (showing young forms).

L. S. QUACKENBUSH, New York City.

20 Species of shells from Escholtz Bay, Alaska.

MISS FRANCES L. SPRAGUE, Flushing, L. I.

A collection of shells consisting of 121 genera, 1161 species and 2337 specimens.

CHARLES HUGH STEVENSON, Washington, D. C., through Dr. G. F. Kunz.

20 Valves of *Meleagrina* (mother-of-pearl) from Auckland, Banda Lea, Ceram, Costa Rica, Jeddah, Fiji, Gambia, Port Darwin, Mergui Sea, Tahiti; *Turbo marmoratus* from Macassar and New Guinea; *Trochus niloticus* from Timor, Philippines; *Haliotis cracherodii*, *H. discus*, *H. splendens*, *Livona pica*, valves of *Unio*.

BY EXCHANGE

CHARLES DAYTON GWYER, Brooklyn, N. Y.

154 Specimens (15 genera, 20 species) of New York State land, fresh-water and marine shells.

J. W. JUDD, Brooklyn, N. Y.

4 Specimens of *Leucozonia multangula*, Phil., from Yucatan.

WM. W. WEEKS, Brooklyn, N. Y.

7 *Columbella nitida*, 11 *Euryta aciculata*, var. *nodosoplicata*, Dkr., 9 *Marginella interrupta*, 3 *Oliva oblonga*; all from Caribbean Sea.

BY PURCHASE

A collection of shells from Jamaica, comprising 18 species.

55 Specimens and 32 species of Western pearl-bearing fresh-water clams, ground and polished.

INCORPORATION

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until

an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, } ss.
OFFICE OF THE SECRETARY OF STATE.

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.] Given under my hand and seal of Office at the City of Albany,
this fourteenth day of April, in the year one thousand
eight hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

† Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

CONTRACT

WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of
D. PORTER LORD.

JAMES F. WENMAN,
*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,
*Secretary Department of Public Parks
of the City of New York.*

ROBERT L. STUART,
*President American Museum of
Natural History.*

SEAL
of the American
Museum of
Natural History

STATE OF NEW YORK, }
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

[SEAL.]

STATE OF NEW YORK, }
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

[SEAL.]

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

FREDERICK W. LOEW,
Register.

[SEAL.]

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY

IN THE CITY OF NEW YORK

Amended May 10, 1909

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

ARTICLE V

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of five candidates to be elected by ballot at the said meeting.

ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

ARTICLE XI

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XII

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XIII

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500, at one time, may be elected a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

Any person contributing \$100, at one time, may be elected a Life Member.

Any person may be elected to the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

BY-LAWS

Amended May 10, 1909

I

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

II

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

III

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

IV

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

V

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VI

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

FOR THE EQUIPPING AND FINISHING OF THE
BUILDING AND THE CONSTRUCTION OF
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

“Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of the City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

Contracts awarded to December 31, 1910.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

For the construction of a Service Roadway from Ninth Avenue to and under the New South Wing of the West Façade.

Contract awarded Atlanta Contracting Company, July 1, 1909, \$26,100.
Completed May 29, 1910.

APPROPRIATIONS AND EXPENDITURES MADE THEREON
TO DECEMBER 31, 1910

APPROPRIATION:

By Direct Appropriation.....	\$500,000 00	
Premiums on Sale of Bonds.....	11,090 63	
		<u>\$511,090 63</u>

EXPENDITURES:

Guidone & Galardi.....	\$325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Atlanta Contracting Co.....	26,100 00	
Charles Volz, Architect's Fees....	1,304 99	
Cady, Berg & See.....	6,935 71	
Harlem Contracting Co.....	4,430 27	
George H. Storm & Co.....	1,725 16	
Pittsburgh Plate Glass Co	1,696 77	
M. G. Reeves	1,596 00	
Connecticut Dynamo & Motor Co..	875 09	
Museum Orders.....	39,963 77	
Carpenters' Payroll, etc.....	62,779 78	
		<u>\$510,117 38</u>

Outstanding Contracts (Harlem Contracting Co.).....	222 67	<u>\$510,340 05</u>
Available Balance Dec. 31, 1910.....		<u>\$750 58</u>

FOR FURNISHING AND EQUIPPING THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

Be it ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 2, 1909, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

“Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

(Signed) P. J. SCULLY, *Clerk.*

APPROPRIATIONS AND EXPENDITURES MADE THEREON
TO DECEMBER 31, 1910

APPROPRIATION:

By Direct Appropriation.....	\$100,000 00	
Premiums on Sale of Bonds.....	445 84	
		<u>\$100,445 84</u>

EXPENDITURES:

John F. Kuhn.....	\$ 1,643 00	
Museum Orders.....	11,164 02	
Carpenters' Payrolls, etc.....	28,829 49	
		<u>\$41,636 51</u>

OUTSTANDING CONTRACTS:

Peter J. Constant.....	\$1,681 91	
Pittsburgh Plate Glass Co.....	2,705 98	
Cardo Borgia Stone Co.....	1,552 10	
Peter J. Constant.....	836 00	
Library Bureau.....	989 62	
	<u>\$7,765 61</u>	<u>\$49,402 12</u>
Available Balance Dec. 31, 1910.....		<u>\$51,043 72</u>

LIST OF MEMBERS

PATRONS

By contribution of \$1,000 or upwards, or through honorary election

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 JOHN ANDERSON.*
 JAMES ANGUS.*
 HICKS ARNOLD.*
 RICHARD ARNOLD.*
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* Deceased

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 Mrs. C. P. HUNTINGTON.
 B. H. HUTTON.*
 B. T. BABBITT HYDE.
 Dr. FREDERICK E. HYDE.
 FREDERICK E. HYDE, Jr.
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 ADRIAN ISELIN, Jr.
 ARTHUR CURTISS JAMES.
 D. WILLIS JAMES.*
 CHARLES M. JESUP.
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 Princess VILMA LWOFF-PARLAGHY.
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 CATHERINE L. SPENCER.*
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 Mrs. ROBERT L. STUART.*
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 HAROLD GARRISON VILLARD.

HENRY VILLARD.*
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 WILLIAM C. WHITNEY.*
 GEORGE W. WICKERSHAM.
 RICHARD T. WILSON.*
 Miss C. L. WOLFE.*

JOHN D. WOLFE.*

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By contribution of \$500, or through honorary election

JOHN ALSTYNE.*
 SAMUEL P. AVERY.*
 CHARLES T. BARNEY.*
 THOMAS BARRON.*
 CORTLANDT FIELD BISHOP.
 DAVID WOLFE BISHOP.
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 ROBERT S. BREWSTER.
 STEWART BROWN.*
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Miss CAROLA WOERISHOFFER.

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| Baron LUDOVIC MONCHEUR.

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T. W. BLAKE.
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CORNELIUS N. BLISS.
CORNELIUS N. BLISS, Jr.
GEORGE BLUMENTHAL.

* Deceased

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 A. K. BOLAN.*
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 WILLIAM BREWSTER.
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 DICKSON Q. BROWN.
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 DAVID LONEY BRUCE-BROWN.
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 HENRY CHAUNCEY.
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 HUGH J. CHISHOLM.
 E. DWIGHT CHURCH.*
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 LESTER B. CHURCHILL.
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 BANYER CLARKSON.
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 TREADWELL CLEVELAND.
 HENRY CLEWS.
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 GEORGE W. COLLORD.
 SAMUEL POMEROY COLT.
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 WM. L. CONYNGHAM.*
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 THEODORE COOPER.
 R. R. CORNELL.
 JOHN J. CORNING.
 Mrs. SALLY MORRIS CORY.
 ALEX. I. COTHEAL.*
 Miss ELLEN H. COTHEAL.
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 Mrs. DAVIES COXE.
 S. D. COYKENDALL.
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 ZENAS CRANE.
 FREDERIC CROMWELL.
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 ALBERT DELAFIELD.
 LEWIS L. DELAFIELD.
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 P. J. GOODHART.
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 MADISON GRANT.
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 FRANKLIN L. GUNTHER.
 WILLIAM D. GUTHRIE.
 ALEX. HADDEN, M.D.
 JOHN A. HADDEN.*
 Miss E. S. HAINES.

* Deceased

JOHN P. HAINES.
 RICHARD T. HAINES.*
 W. A. HAINES.
 Mrs. W. A. HAINES.*
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 WILLIAM M. HALSTED.*
 WILLIAM GASTON HAMILTON.
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 CHAS. W. HARKNESS.
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 ALAN C. HARRIS.
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 MARK HOYT.*
 THEODORE R. HOYT.
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 Dr. ALEX. C. HUMPHREYS.
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 JAMES KNIGHT, M.D.*
 H. R. KUNHARDT, Jr.
 GEORGE F. KUNZ.
 WOODBURY G. LANGDON.
 Dr. F. LANGE.
 JACOB LANGELOTH.
 JOSEPH LAROCQUE.*
 JOHN BURLING LAWRENCE.
 Mrs. SAMUEL LAWRENCE.
 JAMES M. LAWTON.*
 S. M. LEHMAN.

* Deceased

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 EDWARD DE P. LIVINGSTON.
 GOODHUE LIVINGSTON.
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 MORRIS LOEB.
 BERNARD LOTH.
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 FREDERIC A. LUCAS.
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 DAVID LYDIG.
 E. H. R. LYMAN.*
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 Frankenberg, W. V.
 Frankfield, A.
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 Frew, Walter E.
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- Fuld, Felix
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 Furst, Arnold S.
- Gade, W. F.
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 Goodchild, John
 Goodfriend, Jacob
 Goodfriend, Meyer
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 Gould, Horace S.
 Grab, Maximilian

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 Rev. Percy Stickney
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 Guernsey,
 Henry William
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 Benjamin Rush
 Lummis, Wm.
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 Lyon, Ralph

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 McAleenan, Henry A.
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McBurney,
 Charles, M. D.
 McBurney, Mrs. Charles
 McCagg, Louis B.
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 McGraw, Stanley D.
 McIntyre, Ewen
 McIntyre, John G.
 McKelvey, Charles W.
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 McKim, Le Roy
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 James W., M. D.
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 Malcolm, M. D.
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 Rev. Joseph H.
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 Capt. Henry, U. S. A.
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 Milbank, Joseph
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 Montant, Alphonse
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 Morgenthau, G. L.
 Morgenthau, Henry
 Morgenthau, Mrs. M. L.
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 Morris, Henry Lewis
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 Theodore Wilson
 Morrison, Edward A.
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 Morton, Quincy L.
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 Mott, Miss Marian
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 Muller, Mrs. Clemens
 Müller, Robert, Jr.
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 Murphy, Franklin

Murray, F. W., M.D.
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 Muschenheim, Wm. C.
 Myers, Charles A.
 Myers, L.
 Myers, Theo. W.

Nash, E. S.
 Nash, William A.
 Nathan, Frederick
 Nathan, Harmon H.
 Nathan, Joseph
 Neilson, John
 Nesmith, James
 Neuburger, David
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 Newberry, Truman H.
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Mrs. E. L. Breese

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 Norton, Ex.
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 Notman, George
 Notman, Howard
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 Nugent, Frank L.

Oakes, Francis J.
 Obermeyer, Jos.
 Oberndorf, David
 O'Brien, J. M.
 Obrig, Adolph
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 Oettinger, P. J.
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 Olcott, E. E.
 Olcott, Geo. M.
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 Olin, S. H.
 Ollive, Thos. S.

Olyphant, R. M.
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 Opdycke, Mrs. Emerson
 Opdycke,

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 Oppenheimer, Dr. H. S.
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 Osborn,

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 Osborn, H. Fairfield, Jr.
 Osborn,

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 Osterholt, Ehler
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 Oudin, Lucien
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Mrs. Henrietta M.
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Peabody, Stephen
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 Pennington, William
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 Peterson,

Frederick, M.D.

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 Pierson, D. H.
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 Prince, J. Dyneley
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 Edward Brevoort
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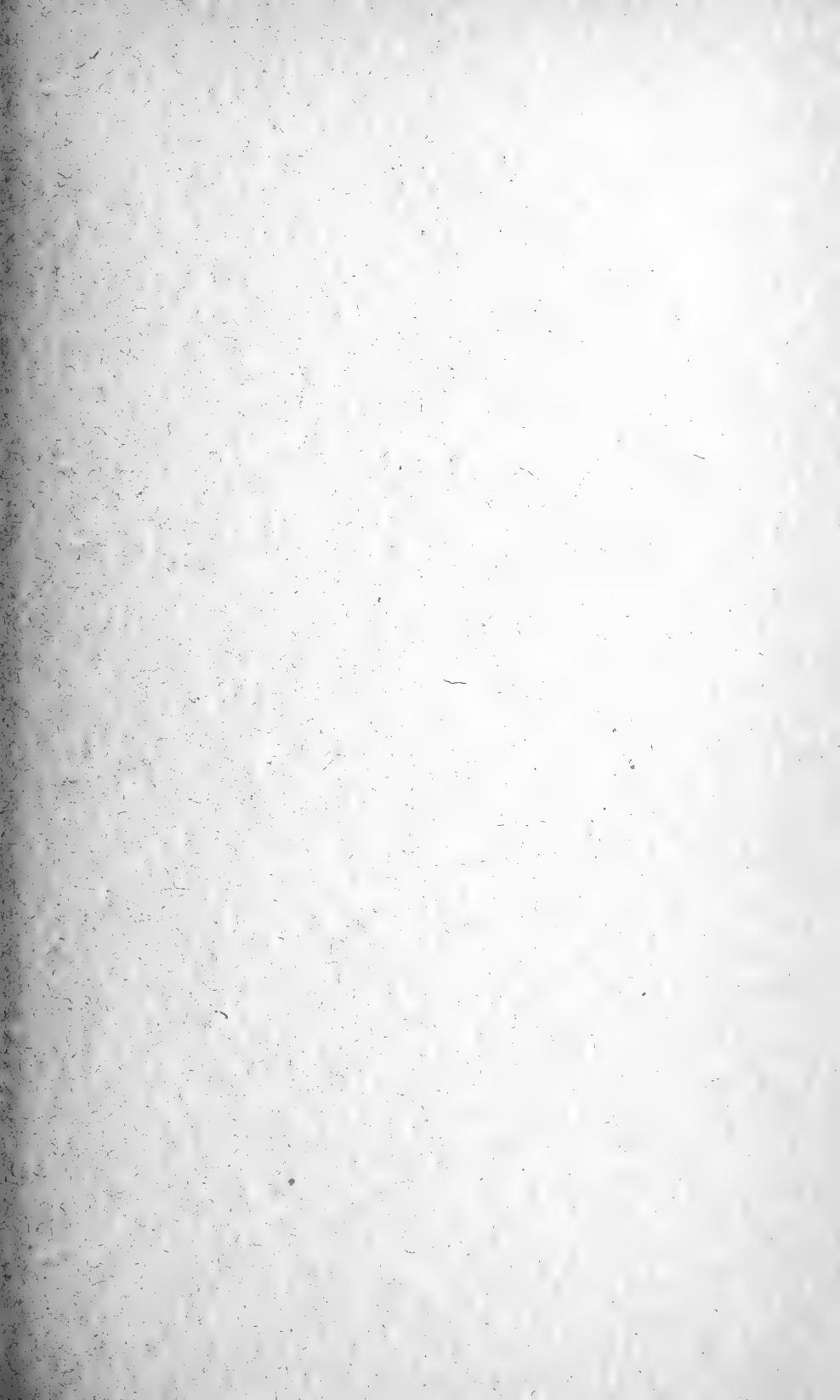
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 D. E., U.S.A.
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From the Charter of 1869

“For the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.”

1873
7A372

RICHARD RATHBUN.

1869

1911

FORTY-THIRD ANNUAL REPORT
OF THE
TRUSTEES
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1911



A FREE INSTITUTION
FOR THE PEOPLE
FOR EDUCATION
FOR SCIENCE

NEW YORK
ISSUED FEBRUARY 5, 1912

1871

1872

1873

1874

1875

1876

1877

1878

1879

1880

1881

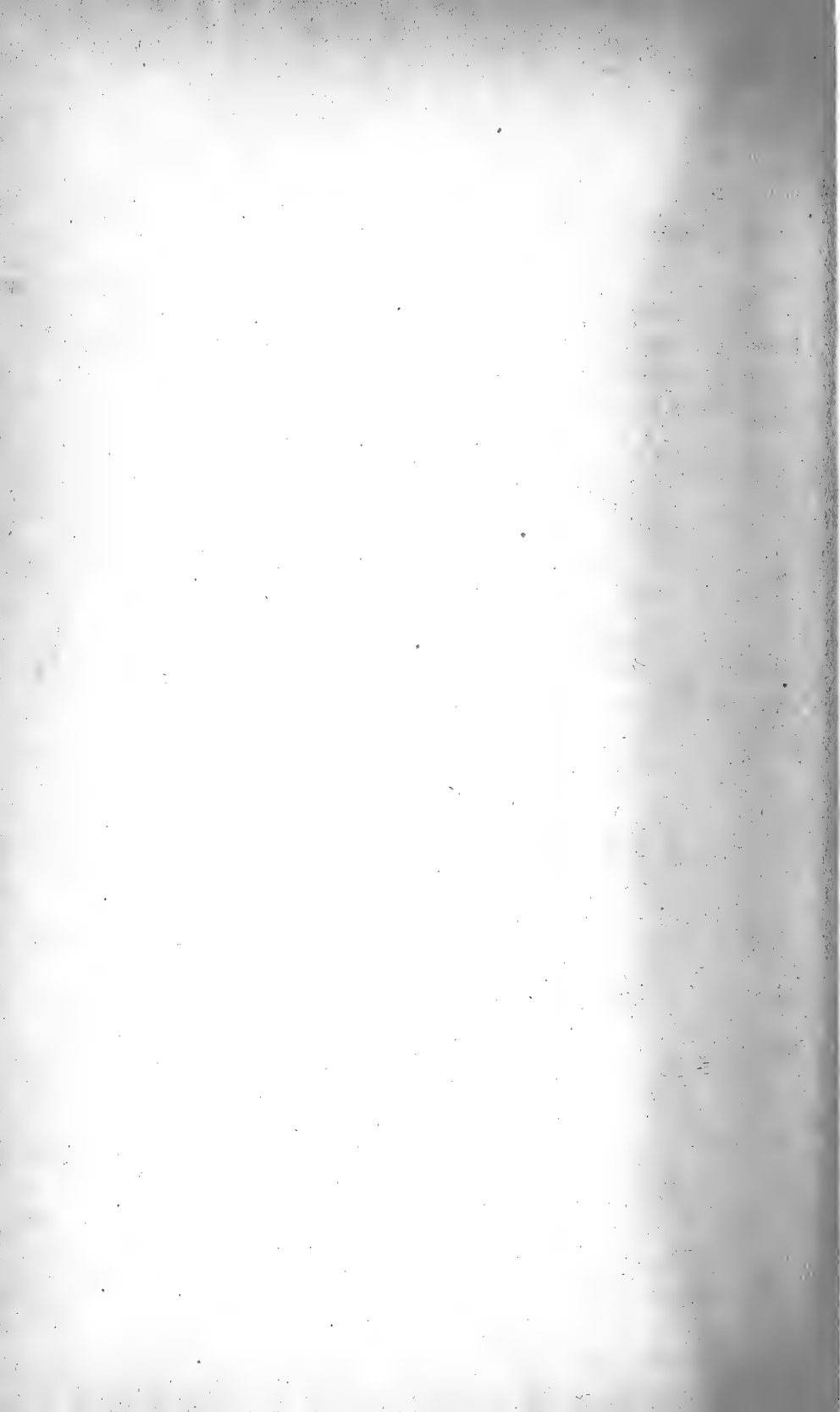
1882

1883

1884

THE AMERICAN MUSEUM OF
NATURAL HISTORY

INCORPORATED IN 1869



MEMBERSHIP AND ENDOWMENT

There are more than twenty-five hundred residents of New York and vicinity who support the educational and scientific work of the Museum and enjoy its lectures, publications and other privileges.

Annual Members	. . . . .	\$	10
Sustaining Members (annually)	. . . . .		25
Life Members	. . . . .		100
Fellows	. . . . .		500
Patrons	. . . . .		1,000
Associate Benefactors	. . . . .		10,000
Benefactors	. . . . .		50,000

The Endowment Fund was established in 1884. The Trustees desire to insure the permanent growth and welfare of the Museum through an increase of this fund.

FORM OF GIFT OR BEQUEST

*I do hereby give and bequeath to "THE AMERICAN
MUSEUM OF NATURAL HISTORY" of the City of
New York,*.....
.....
.....



IRVING PRESS
119 and 121 East Thirty-first Street
New York

FORTY-THIRD ANNUAL REPORT
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1911

Annual Report of the President
Treasurer's Report List of Accessions
Act of Incorporation
Contract with the Department of Parks
Constitution By-Laws and List of Members



NEW YORK
ISSUED FEBRUARY 5, 1912

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Assistant Secretary

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UNITED STATES TRUST COMPANY OF NEW YORK

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FOR 1912

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JOHN T. NICHOLS, A.B., Assistant Curator of Recent Fishes
MARY CYNTHIA DICKERSON, B.S., Assistant Curator of Herpetology

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W. DeW. MILLER, Assistant Curator of Ornithology

SCIENTIFIC STAFF FOR 1912—*Continued*

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DEPARTMENT OF WOODS AND FORESTRY

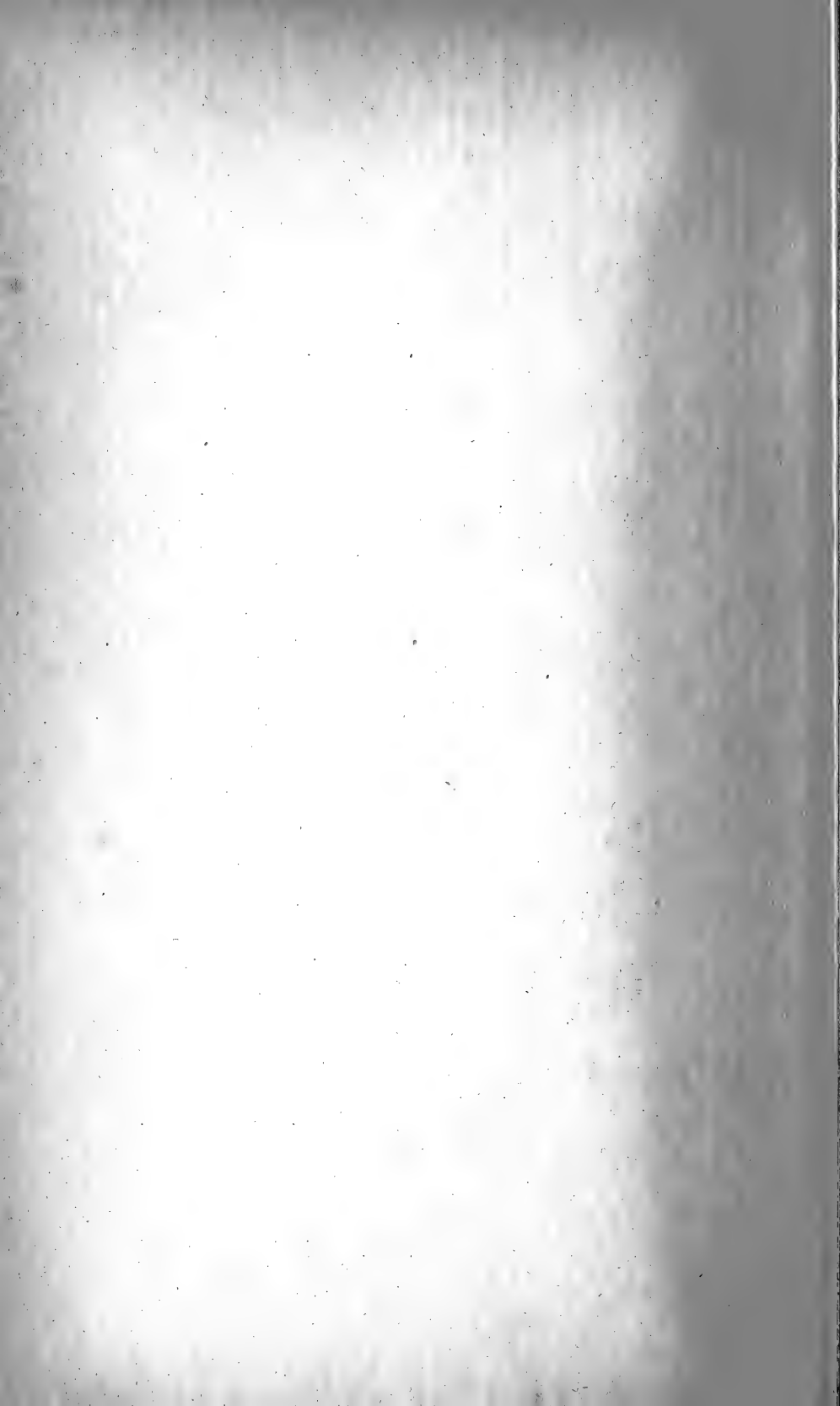
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PRELIMINARY DESIGN FOR NEW EASTERN FAÇADE OF THE MUSEUM, FACING CENTRAL PARK
TROWBRIDGE AND LIVINGSTON, ARCHITECTS

FORTY-THIRD ANNUAL REPORT

To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:

The President has the honor to submit herewith his fifth annual report on the general development of the Museum. The internal progress during the year 1911 is outlined in the included reports by the Director and the Curators and Officers in charge, together with recommendations relating to various departments.

The chief aim of the administration has been to enhance the educational influence of our exhibition halls through rearrangement of the collections along the lines of the General Plan* published in 1910, through labeling, through the issuing of a *General Guide* and especially through care of the interests of teachers and pupils of the public schools. Increased attention also has been given to the proper publication of the work of the Museum in the newspapers, which have shown intelligent and helpful response; full and accurate press reports of our work are now among the chief agencies of the spread of science in the City.

It is chiefly due to these educational efforts that the attendance at the Museum has increased within the year by 100,000; that the attendance at lectures has risen to nearly 90,000; that the number of pupils visiting the Museum for study and attendance at lectures has increased to 34,054, and that the number of pupils studying the circulating collections has increased by over 300,000, reaching the unprecedented total of 1,253,435.

Public approval of the Museum's work is shown also by the enrolment of 347 new Members, the total membership now being 2,652.

The scientific and research⁴ side of the Museum's work, which underlies and gives life and novelty to the popular edu-

* *History, Plan and Scope of The American Museum of Natural History, submitted at the Annual Meeting of the Board of Trustees, February 14, 1910, adopted by the Board on May 8, 1911.*

cational side, has been equally advanced through an unusually large number of expeditions in the field, forty-four all together, engaged in exploration in every continent except Australia, and bringing back collections and photographs of rare value, which cannot be secured in any other way. The *Museum Journal*, issued from October to May, has kept our Members and the public fully informed of this most interesting feature of the Museum's activities.

FIFTIETH ANNIVERSARY

On April 6, 1919, or seven years hence, the Museum will celebrate the close of the first half-century of its chartered existence. As the oldest institution of its kind in the City of New York, it has furnished the precedent on which the other institutions were established, and it seems eminently fitting that the occasion should be celebrated by the completion and opening of the southern half of the great building projected in 1871. On May 8, 1911, the Board of Trustees unanimously recommended to the Board of Estimate and Apportionment that the southern half of the Museum, surrounding the two south courts, be completed in 1919 in time to celebrate the Fiftieth Anniversary of the Founding of the Museum. The resolution was as follows:

Resolved, That the Trustees hereby adopt the general features of the ground plan for the extension of the Museum, as recommended in the President's *Plan and Scope Report*, as approved by the Buildings and Plans Committee of 1910 and as presented by the Buildings and Plans Committee of 1911.

Resolved, That the Executive Committee is hereby empowered to present this ground plan to the Board of Estimate and Apportionment at their coming meeting as expressing the judgment of the Trustees as to the wisest development of the Museum building during the next decade.

That the Trustees recommend to the Board of Estimate and Apportionment the construction of the building surrounding the two south courts, namely:

- | | |
|-----------------------------|--------------------------|
| 1. Southeast Wing and Court | 3. West Transept, |
| Building of the East | 4. East Transept, |
| Façade, | 5. East Façade Entrance, |
| 2. West Façade Entrance, | 6. Central Rotunda, |

in time to celebrate the Fiftieth Anniversary of the Founding of the Museum in 1919, by the opening of the East Façade Entrance.

That the Trustees recommend the immediate erection of the Southeast Wing and Southeast Court Building.

This construction will involve:

First. The completion in 1911-12 of the Southeast Wing and Court Building, the plans of which have been adopted by the City;

Second. The completion in 1912-18 of the east and west central sections of the Museum, including entrances on Central Park and Columbus Avenue at the foot of West Seventy-ninth Street.

On May 22, the President appeared on behalf of the Trustees before the Budget Sub-Committee (Messrs. Prendergast, McAneny and Mitchel) of the Board of Estimate and Apportionment, and presented the foregoing resolution of the Trustees, accompanied by the folder* entitled "Growth of the Building of The American Museum of Natural History—Plans for Future Building and Arrangement of Collections," together with a summary of the financial and educational status of the Museum.

The plans for future building are the result of four years' careful consideration and study during the present administration, in which the advice of experts has been constantly sought in connection both with the scientific arrangement and with the great educational plan involved. All the changes now in progress or contemplated are made with reference to this Plan. The chief reason for the execution of these plans during the next seven years is not the mere sentimental interest, but the substantial fact that if the Museum continues its present accelerating progress, seven years hence will find us prepared to fill the larger portion of the new building with collections covering important branches of science, such as geography, physiography, oceanography, astronomy and public health, which we cannot provide for in our present building, but which are intimately related to public education and welfare.

The financial forecast of this Anniversary plan naturally requires as careful consideration as the educational and scientific. The Museum is already expending annually far beyond the income of its Endowment, necessitating increasing drafts upon the generosity of the Trustees and other friends of the institution. These contributions have been more notable in the past year than in any previous year of our history.

The following financial summary of the operation of the Museum during the past decade furnishes a clear basis for a preliminary estimate of our future needs:

* Folder issued May 8, 1911. A second and revised issue will be made in May, 1912.

CONTRIBUTIONS OF THE MUSEUM AND OF THE CITY DURING
THE DECADE 1902-1911

Year	Contributions from Trustees and Others	Maintenance Appropriations by the City	Contributions to Permanent Endowment by Trustees and Others	Building Appropriations by the City
1902	\$108,964 71	\$160,000 00	\$32,208 57	\$200,000 00
1903	90,196 38	160,000 00	4,933 12	188,000 00
1904	84,210 22	160,000 00	569,761 39	.....
1905	85,387 30	160,000 00	1,000 00	500,000 00
1906	132,718 10	170,000 00	.....	.....
1907	125,858 16	160,000 00	33,799 25	.....
1908	159,705 52	159,930 62	1,000,000 00	.....
1909	176,008 04	179,999 60	12,000 00	100,000 00
1910	196,634 00	185,757 00	132,000 00	.....
1911	218,713 65	189,757 00	26,070 37	275,000 00
	<u>\$1,378,396 08</u>	<u>\$1,685,444 22</u>	<u>\$1,811,772 70</u>	<u>\$1,263,000 00</u>

As shown in detail in the above table, the Trustees have more than fulfilled the spirit of the obligations of the Charter of 1869, having contributed for all purposes during the past ten years \$3,190,168.78, an excess of \$241,724.56 over the contributions of the City, which reach a total of \$2,948,444.22.

It is apparent from these figures that the annual contributions by the Museum, amounting in 1911 to \$218,713.65, should be compared with the annual Maintenance appropriations by the City, amounting in the same year to \$189,757. In general the contributions to the Permanent Endowment should balance the City appropriations for building. The inference is that our Endowment Fund should now equal the total amount which the City has spent for building, namely, about \$5,000,000; and the growth of our Endowment Fund should keep in advance of the growth of the building, as it has done during the past decade.

The appropriation for Maintenance for the year 1912 is \$195,000, which still leaves a deficiency of about \$80,971 to be covered by Museum Funds.

The preliminary estimate is that, to provide for the enlarged Museum of 1919, the total income of the Museum from Endowment, annual gifts, membership and City Maintenance should be nearly double what it is at present, and that the chief source of future income should be a largely increased Endowment Fund, such as that enjoyed by our sister institutions the Field Museum in Chicago and the Carnegie Museum of Pittsburgh.

GENERAL APPORTIONMENT OF MUSEUM AND CITY FUNDS

The manner in which our funds have been distributed during the past year is shown in the following table. Education is directly as well as indirectly provided for.

ANALYSIS OF EXPENDITURES IN 1911

	By the Trustees and Friends of the Museum	By the City	Total
<i>Administration (Maintenance)</i>			
All salaries and supplies for the purpose of scientific and office administration, heating and lighting, current repairs, care of exhibition halls and collections, sundry and general expenses.			
Salaries	\$5,319 51	\$150,685 71	\$156,005 22
Supplies, etc.	23,536 56	25,580 51	49,117 07
<i>Scientific care of Exhibition Halls, Collections (Maintenance)</i>			
All salaries and supplies for the purpose of preparing, preserving and exhibiting specimens and collections	38,824 64	1,919 97	40,744 61
<i>Publication and Research</i>			
For apportionment of services of the scientific staff for publication and research, services of artists and photographers, the preparation and printing of the Bulletin, Memoirs, American Museum Journal.....	39,152 62	.....	39,152 62
<i>Library</i>			
For the payment of all salaries for care and binding, and for the purchase of books, periodicals, etc...	9,666 20	(salaries only) 7,640 00	17,306 20
<i>Exploration and Purchase of Collections</i>			
For the payment of all field salaries and expenses while in the field, purchases of all specimens and collections, payment of express, freight and custom house charges for the same.....	92,880 16	.....	92,880 16
<i>Public Education</i>			
For the payment of services and supplies for photographic work, lectures, transferring school collections (excepting maintenance of automobile, but including chauffeur's services) and Children's Room.....	7,024 58	3,930 81	10,955 39
	<u>\$216,404 27</u>	<u>\$189,757 00</u>	<u>\$406,161 27</u>

BUILDING PLANS

In presenting to the Trustees, on May 8, 1911, the plans of the Southeast Wing and Court Building, the architects were invited by the Committee on Building and Plans* to prepare a preliminary study of the East Façade on Central Park, a reproduction of which is shown as a frontispiece of this report. This sketch, which will be followed in time by a more serious architectural study, retains the main lines of the South Façade, but is a marked step in the direction of greater simplicity of design. It is proposed that the central entrance on the Park shall be approached by a new driveway and that the section shall contain an architecturally imposing interior on the second floor appropriate for a building of such vast proportions as the American Museum is destined to be. This entrance will be essentially the Zoölogical Entrance of the Museum, emphasized by the African and Asiatic Halls which will open out from it; whereas, the entrance on the west side, at the foot of Seventy-ninth Street, will be the Anthropological Entrance, as indicated by the monumental architecture of Mexico and Central America, which will be rearranged in the Entrance Hall. Interior plans for the transepts connecting these eastern and western entrances are now being very carefully studied.

In response to the recommendation of the Trustees of May 8, the Board of Estimate and Apportionment appropriated on July 17 the sum of \$200,000 for the excavation and foundation of the new Southeast Wing and Court Building, and it is understood that this will be followed by an appropriation of \$550,000 for the erection of these buildings. At the same time an appropriation of \$75,000 was made for the equipment of the existing building.

FUTURE EXHIBITION HALLS

The future building, approved by the Trustees on May 8, provides for a large number of exhibition halls for branches of natural history new to the Museum. Among these the Museum is now actively engaged in preparing for the following:

GEOGRAPHIC HALL, East Wing, First Floor
AFRICAN HALL, East Wing, Second Floor
OCEANOGRAPHIC HALL, Southeast Wing, First Floor
WHALE COURT, Southeast Court, First Floor
ICHTHYOLOGY HALL, Southeast Wing, Second Floor

*Messrs. Pyne, Warburg, Grant and the President *ex-officio*.

GEOGRAPHIC HALL.—For many years the Museum has been carrying on independent explorations, especially in boreal and arctic regions, in which geography has been an important feature. It is now proposed to coöperate with the American Geographical Society in all such work, referring all purely geographical results to the Society and all zoölogical and other natural history results to the Museum, with a corresponding division of expenditures. The American Geographical Society has entered on a new period of activity through the generosity of Mr. Archer M. Huntington, and plans for important coöperative work in the year 1912 are now under consideration. For two years past, at joint expense, a large standard map of the world in low relief has been in joint preparation, which will be a great credit to the Geographical Society and of much service in the exhibition halls of the Museum.

AFRICAN HALL.—Since 1907 the Museum has been carrying on very active exploration in Africa to secure the fast-vanishing forms of that continent before it becomes too late. All together \$55,000 have been contributed by Trustees and friends for this purpose, the chief expeditions being:

The Tjäder Expedition, supported by Mr. Samuel Thorne.

The Fayûm Expedition, supported by Mr. Jesup and Professor Osborn.

The Congo Expedition, under Messrs. Lang and Chapin, supported by a group of the Trustees, together with a generous contribution from the Belgian Government.

The Elephant Group Expedition, under Mr. Carl E. Akeley, supported by several Trustees.

Several valuable ethnological and zoölogical collections from Africa have also been purchased or are under consideration. The time has now arrived when the chief aim of the Museum will be the preparation and exhibition of these collections for the new African Hall, the architectural plans of which will be especially prepared for this purpose.

OCEANOGRAPHIC HALL.—A sudden and unexpected impulse was given to the proposed oceanographic work of the Museum through the generous coöperation of the United States Fish Commission in detailing the famous vessel

"Albatross," under the scientific command of Acting Director Townsend, for a cruise off the southwest coast of California during the spring months of 1911. The funds for the Museum's participation in this important work were contributed by Mr. Arthur Curtiss James. The work was in coöperation with the New York Botanical Garden and the New York Zoölogical Society, and resulted in securing for the Museum a fine collection, especially of elephant seals, of deep-sea fishes and of new forms of mammal, bird and reptile life on little explored islands.

WHALE COURT.—Plans for a superb hall for the exhibition of models and skeletons of whales have been prepared under the Committee on Building and Plans by the architects. The hall will occupy the Southeast Court, leaving space so as not to interfere with the ventilation and lighting of the buildings surrounding the court. The Museum's collection of whales, especially enriched through the donations of Mr. George S. Bowdoin, is now the first in this country and promises to be one of the most complete in existence as a result of the expeditions which are now in progress under Assistant Curator Andrews along the Atlantic coast and in the seas of Japan. The Museum is especially indebted to the Toyo Hogeï Kabushiki Kaisha of Shimonoseki, Japan, for generous coöperation.

ASIATIC HALL.—Through Colonel Anthony R. Kuser, a Trustee of the Zoölogical Society, an important expedition was sent to Asia and the East Indies under Curator C. William Beebe of the Zoölogical Park, which resulted in the securing of a unique collection of pheasants. It is Colonel Kuser's intention to present the collection to the Museum for study purposes and also for exhibition in four large habitat group cases. This indirect result of coöperation with the Zoölogical Society is a welcome beginning of exploration in Asia which must have for its object the securing of the great living types of that continent for the Asiatic Hall of the future, which will adjoin that of Africa.

ICHTHYOLOGY HALL.—The greatest apparent progress, so far as exhibits are concerned, has been in the Department of Ichthyology and Herpetology. Up to the present year the



DEPARTMENT OF ANTHROPOLOGY

WEAVING A CHILKAT BLANKET AT A CAMP ON A SALMON RIVER

One of the Mural Panels by Will S. Taylor for the Northwest Coast Hall

The blanket is being made for the man of the family who stands at the left. The young girl has stopped in the process of separating the strands of the cedar bark to be used for warp. The woman at the right has looked up from her work of spinning the wool

display of fishes and reptiles has been small and the specimens shown, with few exceptions, of indifferent quality. As a result of work of preparation for more than a year past, fishes and reptiles are now fairly well represented, and the examples shown are of great excellence, the Bullfrog Group in particular rivaling the well-known habitat bird groups in beauty and educational value. This work is being prosecuted through the annual contributions of Mr. Cleveland H. Dodge.

MURAL WORK

In various exhibition halls, especially in those of Anthropology, the need of mural painting has been felt, to supplement the case exhibition and sculptural models. Only an artist can represent the spirit and sentiment of the life of the various existing and extinct tribes of men, subjects that require extremely careful study and exceptional caution, lest the Museum acquire mural decorations which in time will prove to be artistically poor, and hence a detriment to the exhibition halls. What is regarded by artists as a very successful series of paintings is that in the North Pacific Hall representing the economic life of the Indians of British Columbia and Alaska. These paintings were executed by Mr. Will S. Taylor, under the scientific direction of Dr. Clark Wissler and Mr. Harlan I. Smith. The paintings of Mr. F. W. Stokes in the same hall are partly mythological and partly economic, representing the life of the Eskimo. Mr. Taylor is now preparing a new series to represent the ceremonial and religious life of the North Pacific tribes; in the preparation of his preliminary sketches he was fortunate in having the advice of Lieutenant George T. Emmons, whom he accompanied on a trip to the northwest coast.

At the same time, Mr. Louis Akin has received a commission for preliminary studies in the hall devoted to the Indians of the Southwest, including the exceptionally picturesque life and customs of the Mokis, Zunis, Navajos and other agricultural peoples.

For the Plains Indians Hall and for the Eastern Woodlands Hall, it is proposed to engage the services of Mr. E. W. Deming to prepare preliminary designs.

For the Tertiary Hall, preliminary designs for four murals have been prepared by Mr. Charles R. Knight, under a gift from Mr. J. P. Morgan, Jr.

JESUP FUND

As a memorial to the late President, Mr. John J. Clancy* ordered a bronze bas-relief of Mr. Jesup from the sculptor Mr. J. E. Fraser, a pupil of Saint-Gaudens. This bronze portrait represents Mr. Jesup in the woods of his estate at Lenox and will be suitably placed in the Jesup Hall of Woods and Forestry.

The publication of the *Memoirs of the Jesup North Pacific Expedition* has not advanced as rapidly as could be desired, and there remain two volumes and four parts of volumes to complete this great series. Professor Franz Boas of Columbia University, the editor, has promised to resume his work on the manuscript, and Dr. Waldemar Jochelson is pursuing his work on the Yukaghir. When complete this monumental series will include twelve volumes.

The income of the Jesup Fund, now amounting to \$50,986, has been devoted during the year to the following purposes, according to the terms of the late President's bequest:

To the purchase of specimens and collections for practically all the departments of the Museum, which include

- Geological Specimens
- Mammals and Birds
- Hollister Navajo Blanket Collection
- Emmons Tsimshian Collection
- Benedict Collection
- Various anthropological models for the exhibition halls

To the support of field parties:

- To Arizona for petrified wood
- To Alberta, Wyoming and Texas for fossils
- To Alaska, Saskatchewan, Alberta, North Dakota, South Dakota, Montana, Wisconsin and New Jersey for work among the Indians
- To Massachusetts, Florida, Jamaica, British Guiana and Dominica for invertebrates

To Woods and Forestry collection

To books for the Library

To the scientific publications of the Museum.

* Deceased November 18, 1911.

FOREIGN MUSEUMS

Our relations are becoming more cordial with the Museums of the Continent and with those of South America in each succeeding year. There is a vast amount of material which we may offer in exchange, and in return secure valuable collections that are not represented at present. Among the chief institutions from which exchanges are in active progress are the following:

Australian Museum.....	Sydney, New South Wales
British Museum (Natural History)...	London, England
Canadian Geological Survey	Ottawa, Canada
Fuknaka University of Japan.....	Tokio, Japan
Museum für Völkerkunde.....	Berlin, Germany
Natural History Museum.....	Basel, Switzerland
Natural History Museum.....	Vienna, Austria
Royal Bohemian Museum.....	Prag, Bohemia
Senckenberg Museum.....	Frankfurt, Germany

IMPORTANT GIFTS

In the new Members' Room are now hung the following portraits: The new portrait of Mr. Joseph H. Choate, painted and presented by the Princess Lwoff-Parlaghy; the portraits of the three past presidents of the Museum, namely, of Mr. John David Wolfe and Mr. Robert L. Stuart, painted by Daniel Huntington, and of Mr. Morris K. Jesup, painted by Eastman Johnson; the portrait of Mr. James M. Constable, painted by A. Müller Ury. The portrait of Mr. Robert Colgate, one of the influential Founders, painted by Daniel Huntington, has recently been presented to the Museum by his family. It is especially desirable to add to this collection a copy of the portrait of Mr. Theodore Roosevelt, who was one of the leading Founders of the Museum.

Among the important gifts of the year are the following:

The Lumholtz collection from the Papago Indians, presented by Mr. Archer M. Huntington; a painted buffalo-hide tipi, by Mrs. E. H. Harriman; a collection of baskets from the South Sea Islands, by Dr. James Douglas; an archæological collection of gold objects from Ecuador, presented by Mr. D. C. Stapleton; African collections, by Dr. William S. Rainsford; models of extinct South American animals, by

Mr. Carl Hagenbeck; oil paintings of the transshipment of the Peary Meteorites, by Mr. Albert Operti; twenty thousand educational lantern slides by Professor and Mrs. Albert S. Bickmore. Other valuable gifts are acknowledged on pages 94 to 123.

The total accessions of the year number 836; estimated value \$75,000.

To the Library are added four thousand volumes on Anthropology, natural history and travels, containing many rarities, the gift of Professor and Mrs. Albert S. Bickmore; also rare classical works on natural history are presented by Mr. Anson W. Hard.

ORGANIZATION, STAFF

Owing to the increased complexity of the scientific and business affairs of the Museum, it appeared desirable toward the close of the year 1910 to review the organization of the institution thoroughly and to consider such alterations as might seem advisable to the President and Trustees both in executive and financial administration. A Committee, headed by Mr. Seth Low, made a very careful study of the internal administration, while the Finance Committee, headed by Mr. J. P. Morgan, Jr., reviewed the financial methods of the Museum. A third Committee on Revision of the Constitution and By-Laws, Rules and Regulations, headed by Mr. Joseph H. Choate, put into legal form the various recommendations of the two committees first named. This revised form of our statutes was presented to the Board of Trustees on November 13, and will be submitted for final adoption at the Annual Meeting, February 5, 1912.

The duties of the Director, Assistant Secretary and of the new officers, Bursar, Registrar, Superintendent of Building and Chief of Construction, are carefully re-defined, with the result that the business of the Museum is now being transacted with rapidity and with a thorough understanding by the officers of the various departments as to their respective duties and responsibilities.

In connection with this reorganization, Professor Hermon C. Bumpus, who had served the Museum since 1901 as

Director, resigned to accept a post in the University of Wisconsin. From January 1 to June 15 Dr. Charles H. Townsend, Director of the New York Aquarium, was released from his duties by the Zoölogical Society and served the Museum as Acting Director. In May, Dr. Frederic A. Lucas, Curator-in-Chief of the Brooklyn Institute Museum, was invited to assume the Directorship of the American Museum and took office June 15, 1911. Dr. Lucas's long experience in Ward's Natural Science Establishment, in the United States National Museum and as Curator-in-Chief of the Brooklyn Institute Museum eminently qualified him for the office. In order to relieve the Director of certain business details, the responsibilities of the Assistant Secretary, Mr. George H. Sherwood, were increased; Mr. Frederick H. Smyth was appointed to the new position of Bursar, and Mr. George N. Pindar to that of Registrar. Mr. J. B. Foulke was appointed Superintendent of Building, in all matters relating to operation, and Mr. H. F. Beers was made Chief of Construction, in charge of all matters relating to repairs, alterations and construction.

The following promotions have been made in the Scientific Staff during the year:

Department of Mammalogy and Ornithology :

Mr. Roy C. Andrews, from Assistant in Mammalogy to Assistant Curator of Mammalogy, February 13, 1911.

Mr. W. DeW. Miller, from Assistant in Ornithology to Assistant Curator of Ornithology, February 13, 1911.

Department of Vertebrate Palæontology :

Dr. W. D. Matthew, from Acting Curator to Curator, February 13, 1911.

Mr. Barnum Brown, from Assistant Curator to Associate Curator of Fossil Reptiles, February 13, 1911.

Mr. Walter Granger, from Assistant Curator to Associate Curator of Fossil Mammals, February 13, 1911.

Dr. W. K. Gregory, from Assistant to Assistant Curator, June 21, 1911.

Department of Ichthyology and Herpetology :

Dr. Louis Hussakof, from Associate Curator of Fossil Fishes to Associate Curator of Fishes, April 19, 1911.

Miss Mary Cynthia Dickerson, appointed Assistant Curator of Herpetology, January 18, 1911.

Department of Public Health :

Mr. John Henry O'Neill, appointed Assistant, February 13, 1911.

Department of Woods and Forestry :

Miss Mary Cynthia Dickerson, appointed Curator, January 18, 1911.

Department of Books and Publications :

Miss Ida Richardson Hood, appointed Assistant Librarian, November 28, 1911.

The following are the new appointments :

Administrative Staff :

United States Trust Company of New York, made Assistant Treasurer, February 13, 1911.

Department of Ichthyology and Herpetology :

Dr. Bashford Dean, reappointed Curator, February 13, 1911.

Department of Geology and Invertebrate Palæontology :

Mr. George Borup, appointed Assistant Curator of Geology, December 20, 1911.

We regret to record the resignation of Associate Curator Harlan I. Smith, to take a post in the Ottawa Museum. Mr. Smith has been in charge of the archæological work of the Department of Anthropology since 1895.

I. GENERAL ADMINISTRATION

FREDERIC A. LUCAS, Director

CHANGES IN BUILDING.—The most comprehensive and important work of the year has been the completion and occupation of the new administrative offices in the south central section. This concentrates and centralizes the administrative force, while the offices vacated have been altered for the concentration and better accommodation of the staff of the Departments of Vertebrate Palæontology and of Ichthyology and Herpetology as well as for the installation of the Osborn Library of Vertebrate Palæontology. This last has yet to be done, but the other changes, save minor details, have been made.

The only matter of regret in this connection is that, owing to the changes made during the past two years, the Library is not quite so accessible to the public as formerly. It is believed, however, that real students will come as formerly, while the needs of the public will be largely met by the reading room on the second floor, which, it is hoped, may act also as a "feeder" for the Library.

The Members' Room, mentioned in the Report for 1910, has been finished, furnished and opened; it provides a place where Members and their friends may rest, write letters and consult the publications of the Museum.

The office formerly occupied by the Curator of the Department of Mineralogy has been taken for a plan room, for the keeping of the ever accumulating plans of the building and of its various subdivisions. Adjoining this a room has been provided for a draftsman and for the telephone office. The present telephone equipment calls for the use of all the wires in the original cable, and arrangements have been made for a new cable which will carry sufficient wires to accommodate the telephone service for many years to come.

NEW EXHIBITIONS.—Many new and important pieces have been added to the exhibits of the Department of Vertebrate Palæontology, and the very interesting and instructive series illustrating stages in the evolution of the horse has been extended and rearranged. The growth of this exhibit, which is steadily assuming more and more importance, and now includes examples of modern horses, raises the question whether it may not be well to provide a small special hall for its display in some future section of the building.

Changes and improvements have been made in almost every exhibition hall, and the principal of them will be found noted in the reports of the various departments. Among the most important is the removal of the groups of New York mammals to the Hall of North American Mammals, where they are displayed to much better advantage than formerly. The greatest gain, however, is to be found in the fact that this change provides room for the exhibits of the Departments of Public Health and of Anatomy and Physiology. The first mentioned of these has never had a local habitation and a home, while the exhibits of the latter department were withdrawn "temporarily" some time ago to make room for other things. Among other improvements well advanced are, on the second floor, a Children's Room, to contain exhibits especially adapted to their interest and point of view, and a reading room where visitors will find books and periodicals of a general character and of popular interest. A room for the

blind will be added as soon as possible to contain collections suitable for their use.

Other changes in progress, or planned for, are the removal of the sections of great trees from the Darwin Hall to the Hall of Forestry, the places where they now stand to be occupied by cases to contain exhibits illustrating Variation in Nature, or Under Domestication; and the construction of cases for the more appropriate installation of the ancient Chinese objects: these, under more favorable conditions, should make a striking and attractive display.

NEW BUILDING PLANS.—The architects have prepared plans for important alterations in the vestibule that will make it much more attractive, much more useful and vastly more fitting for the entrance to a great museum than it is now. These plans provide for a visitors' room, somewhat like that at the Museum of Fine Arts, Boston, where visitors may arrange to meet their friends and where the various publications of the Museum, including guide-books and post-cards, may be seen, consulted and purchased. These changes and the improvement of the foyer, will call for the withdrawal for the time being of the astronomical exhibit, for which more ample provision will be made in projected sections of the building.

REGISTRATION AND CATALOGUING.—A most important piece of administrative work has been the inauguration of a new system of recording accessions, loans and exchanges, which, by the energy of Mr. Pindar, and with the hearty coöperation of the departments, has put the records in most excellent and available shape for preservation and reference. To quote from the report of the Registrar: "At the close of the year, 836 accessions have been recorded, with a total approximate valuation of \$75,000, and for these acquisitions, proper accession, donor and subject card catalogues have been typewritten and placed in their proper files; many of the accessions cover many items, and of necessity numerous *subject* cards for the same accession have to be prepared. There have also been card-indexed nearly all the accessions of the Department of Anthropology from 1869-1910 inclusive, and with the completion of the accessions in this

department, it is my intention to have those of the various other departments card-indexed. In this work we have now in our files nearly 5,000 completed indexed cards, and I am in hopes that, in the next six or eight months, the entire list of the acquisitions of the Museum will be completed."

The Registrar also reports that during the year his office handled 1,432 incoming and outgoing shipments, comprising 2,473 packages. It is to be regretted that at present it is not possible to provide a suitable room for the handling of shipments of all kinds, but this is a matter that cannot properly be arranged for until the construction of the west central section, where such an office ultimately should be located.

It is also gratifying to record that, as shown by the reports of the various departments, the work of cataloguing the collections has been carried on in a most satisfactory manner, this too, when, as in the case of the Departments of Mammalogy and of Anthropology, accessions have been unusually numerous.

While much has been accomplished, a vast amount remains to be done to care for the study collections and to bring the exhibits up to modern standards of installation and educational value. As a single item, 100,000 labels, at a moderate estimate, are needed for the proper labeling of the various collections, and the writing and printing of these is a task of no small magnitude. In anticipation of this work a new printing room will be constructed as soon as possible, a new press has been ordered and another assistant will be engaged as soon as this is available. The present equipment is quite inadequate for the needs of the Museum, while the printing of the many documents, circulars and cards absolutely necessary for the proper carrying on of various branches of the work of the Museum make great demands upon the present printing force.

It will seem scarcely credible to the present generation that, thirty years ago, there was practically not a group of animals nor a descriptive label in any museum in the United States, but such is the case. It is amusing to the present generation to think that, in 1880, Dr. Coues expressed his belief that few mammals remained to be discovered in North

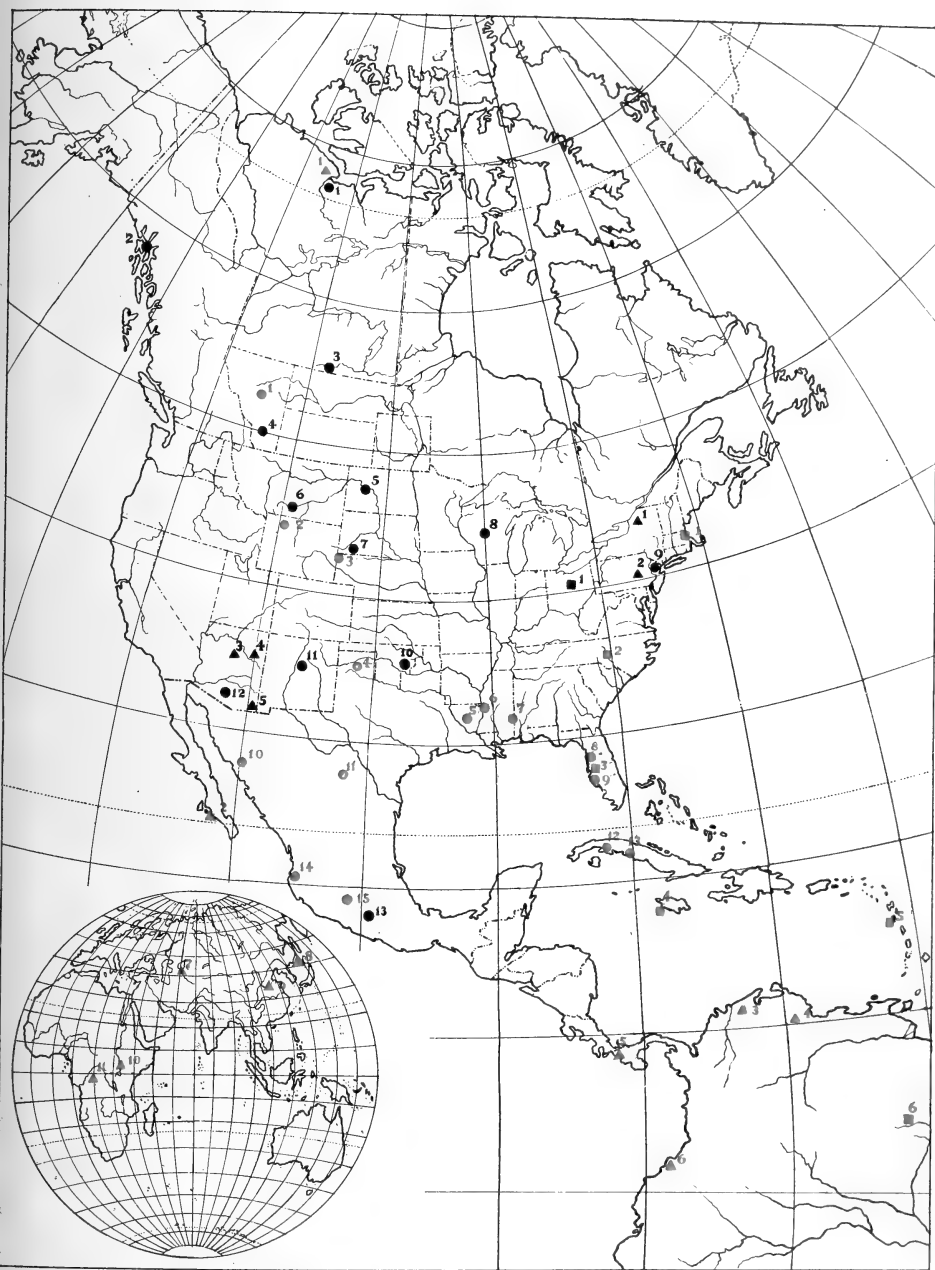
America, while since then the number of known species has quadrupled. At the same time it is appalling to think of the many species that have been brought to the verge of extinction, and that within our lifetime the bison has been all but exterminated and the passenger pigeon blotted out of existence, in spite of the fact that one was probably the most abundant mammal and the other the most abundant bird in the world.

The care of the collections of all kinds calls for large numbers of storage cases, drawers, cans, shelving and jars, to preserve specimens and make them available for study and exhibition.

FIELD WORK, EXPLORATION.—Realizing the rapidity with which not only animals, but races of mankind with their beliefs and customs, are being swept out of existence by what we are pleased to call the march of civilization, special effort has been made of late years to gather objects and information while they are yet to be had. This has resulted in the accumulation of much material which must be cared for. At the same time the growing appreciation of the educational value of museums, through their exhibits, has called for increasing attention to their preparation and labeling. Thus the work of museums has increased in all directions, and much more rapidly than the funds for their support.

The year has been noteworthy for the amount of field work accomplished, forty-four parties having been sent out directly by the Museum, while at seven localities work has been carried on for the Museum by local collectors or agents. Mr. Akeley, on account of ill health, returned from Africa, but hopes to go back once more, for, while he secured material for a fine group of elephants, he did not, as he wished, obtain one of the few remaining old tuskers. It is Mr. Akeley's belief that within five years not a single first-class bull elephant will be left in Africa. The Congo Expedition is still in the field, and, at last accounts, has secured some 8,000 specimens of various kinds, including the Okapi and White Rhinoceros.

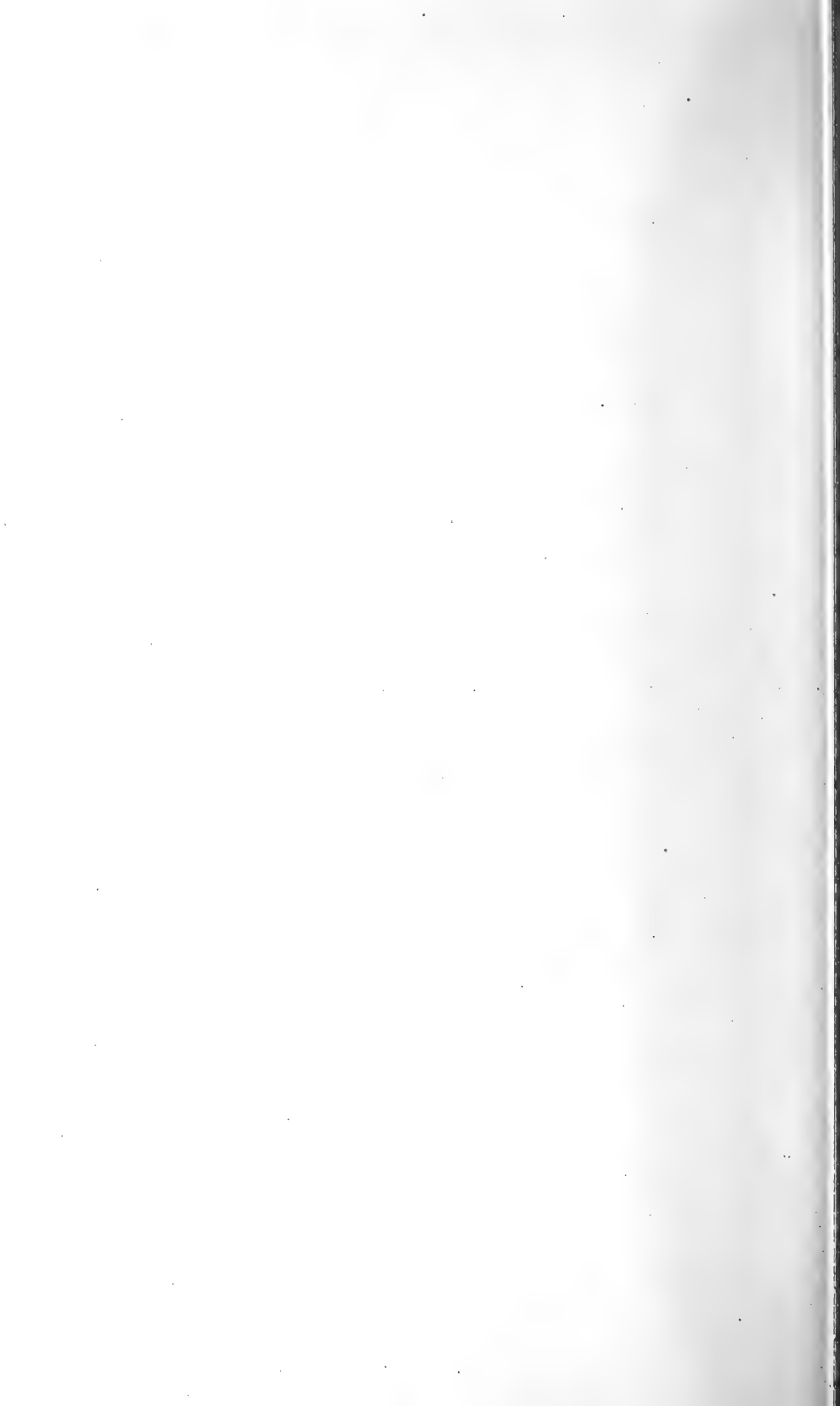
PUBLICATIONS.—Through the energy of Miss Dickerson and Mr. Sherwood, a new and much needed *General Guide* was



LOCATION OF EXPLORING AND FIELD PARTIES OF 1911

- | | |
|-----------------------------|--|
| ● Vertebrate Palaeontology | ● Anthropology |
| ▲ Mammalogy and Ornithology | ▲ Geology and Invertebrate Palaeontology |
| ■ Invertebrate Zoology | ■ Ichthyology and Herpetology |

If from these localities lines were drawn to New York, they would present graphically the influx of new material and ideas for the Museum's research and exhibition. In many cases, the marks indicate but a small fraction of the area actually explored



issued in November, in time for Teachers' Day. This has been in good demand by visitors, as have also various *Guide Leaflets*, particularly the attractive guide to the Forestry Hall, published early in the year. A number of the Leaflets most often called for is out of print, but new and revised editions are in course of preparation.

The sale of such publications has been perceptibly increased by having them sold by attendants as well as at the door. Incidentally it may be said that the post cards, from subjects selected by Dr. Townsend while Acting Director, have been in good demand, over 5,000 having been sold during the short time that they have been available.

STATISTICS OF NUMBERS REACHED BY MUSEUM
EXTENSION SYSTEM

	1905	1906	1907	1908	1909	1910	1911
Board of Education Lectures...	42,212	45,000	35,068	43,386	28,402	43,549	40,067
Children's Lectures.....	35,000	17,187	26,312	22,931	20,165	9,242	22,797
Children's Room and Mrs. Roesler's Special Lectures.....			3,376	5,430	7,359	6,368	7,138
Classes visiting the Museum for General Study..	11,000	6,813	7,795	10,818	8,712	9,284	9,444
Meetings of Scientific Societies and other Meetings and Lectures.....	35,281	6,867	11,784	15,587	337,433	58,926	76,132
General Attendance for all purposes.....	565,489	476,133	537,894	1,043,582	839,141	613,152	724,141
Number of Pupils reached by Circulating Collections.....	375,000	800,000	725,000	575,801	922,512	839,089	1,253,435
	940,489	1,276,133	1,262,894	1,619,383	1,761,653	1,452,241	1,977,576

Not only is this attendance more than 100,000 greater than that of last year, but it is really the largest in the history of the Museum—the large figures of 1908–1909 being due to the great number of visitors to the Tuberculosis Exhibit and to

the stimulation of the Hudson-Fulton Celebration. Since 1909 there has been a great drop in the attendance at all Museums and similar institutions in New York, this Museum and the Children's Museum, Brooklyn, being the only institutions showing a substantial gain over 1910.

In this connection, the Director wishes to express his belief that exhibitions other than of museum material, while of public interest and much educational importance, are often of more apparent than real value to the Museum. They add temporarily to the attendance, but they are apt to interfere with the regular work of the Museum, to divert attention from its real objects and to delay the preparation of its exhibits.

HOSPITALITY TO SCIENTIFIC SOCIETIES. — As usual the Museum has been, as noted below, the meeting place of various scientific and educational societies. These have been:

- American Bison Society
- American Ethnological Society
- American Nature Study Society, New York Branch
- American Psychological Association, New York Branch
- American Scenic and Historic Preservation Society
- Aquarium Society
- Association of Collegiate Alumnæ
- Audubon Society of the State of New York
- Horticultural Society of New York
- Linnæan Society of New York
- Metropolitan Sewerage Commission
- Mount Holyoke Alumnæ Association
- National Academy of Sciences. Reception
- National Association of Audubon Societies for the Protection of Wild Birds and Animals
- Natural Science Committee of the Associate Alumnæ of the Normal College of the City of New York
- New York Academy of Sciences
- New York Association of Biology Teachers
- New York Entomological Society
- New York Library Club
- New York Microscopical Society
- New York Mineralogical Club
- Torrey Botanical Club

The exhibit of the Aquarium Society, the first of its kind, was held under various disadvantages, but attracted much interest and was visited by over 5,000 people. The annual

exhibit of the Horticultural Society was one of remarkable beauty, and falling on a pleasant Sunday, was largely the reason for the visit of 25,000 people.

It is pleasant to record the continued use of the lecture halls and the growing recognition of the Museum as a scientific center. It is to be hoped that it may be possible to make some desirable improvements that will add to the comfort and better accommodation of our guests.

CARE OF THE BUILDING.—A matter of great and ever increasing importance is the care of the building with its acres of floor, roof and glass, and miles of steam piping and electric wiring. The first section of the Museum was erected thirty-five years ago; the last was finished in 1908. In a climate like that of New York, subject to the extremes of heat and cold, all exterior work deteriorates rapidly and needs continued care, while the interior needs constant repairs and repainting.

Practically all the steam-pipes in the first section should be replaced, and such progress has been made in the matter of lighting that little of the present system is up to date and much of it is antiquated.

All this is mentioned not to complain but to explain; to place before the Trustees and the City the wants of this institution and to complement the words of the President regarding the need of a large endowment fund. A great museum is no longer looked upon as a luxury and for the benefit of a few individuals; it is an educational necessity, the people's university, open to all from the youngest to the oldest. Stanford University has an endowment of about \$25,000,000. It has an attendance of about 1,600 students. This Museum has an endowment of \$2,367,716, and for the last five years has had an annual attendance of over half a million.

It is not that friends have not been generous and the City Government liberal to the Museum, but simply that owing to circumstances our needs have outdistanced our funds.

II. PROGRESS OF THE DEPARTMENTS

PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

DEPARTMENT OF PUBLIC EDUCATION.—Expansion has been the key-note of the work of this department during the year. While the routine work has progressed as usual, special attention has been given to devising further means of acquainting teachers with the facilities that the Museum is ready to extend to them.

The difficulties of transportation have deterred many teachers from making frequent use of the Museum. As an aid in this connection, in coöperation with the

Metropolitan Museum of Art
American Geographical Society
Hispanic Society of America
New York Zoölogical Society
New York Botanical Garden
Brooklyn Institute of Arts and Sciences
New York Public Library

the Museum has prepared and published in colors a map of New York City showing the free educational institutions and the main transportation lines by which they can be reached. Copies of this map have been distributed with the compliments of the subscribing institutions to all the public schools in the City, and copies have been posted in all the libraries and in other public places. The total number of maps distributed is 1,579.

Another feature of the year's work was the Second Annual Teachers' Day, which was held at the Museum November 11. All the public schools were invited to send delegates, and 870 teachers assembled in the auditorium to listen to addresses by President Osborn and Director Lucas. The teachers were then invited to visit the exhibition halls and examine critically the specimens and collections. To make the examination more practical each teacher was given a set of suggestion



DEPARTMENT OF PUBLIC EDUCATION
A CLASS FROM THE PUBLIC SCHOOLS STUDYING THE MOOSE GROUP



papers which were designed to call attention to the biological facts which the installation of the collections demonstrate. The exercises of the day were concluded with an informal reception in the South Sea Islands Hall and Philippine Hall. On Teachers' Day were issued a *General Guide to the Exhibition Halls* and the November number of the *Museum Journal*, which was devoted to an exposition of the educational work of the Museum. Copies of each of these and of the educational map mentioned above were given to each delegate.

In the preparation of the program for Teachers' Day, the members of the department staff were assisted by the following teachers:

TERESA E. BERNHOLZ, Public School Number 9
ANNA M. CLARK, New York Training School for
Teachers
JAMES E. PEABODY, Morris High School
JOHN F. REIGART, Public School Number 166
LILLIAN BELLE SAGE, Washington Irving High School
RICHARD W. SHARPE, DeWitt Clinton High School

whose valuable suggestions and advice contributed in no small degree to the success of the occasion.

MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.—The circulating collections continue to hold their popularity with the teachers, which is a criterion of their practical use. This branch of the work of the department has been more extensive than in any preceding year. These collections have been regularly supplied to 486 schools, or to more than three-fourths of all the public schools of the City, and the statistics furnished by the teachers show that they have been studied by 1,253,435 pupils, the largest number yet recorded by the department. The distribution and circulation of these collections have occupied the entire time of two messengers.

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1905	1906	1907	1908	1909	1910	1911
Number of Collections in use.....	400	435	450	484	435	390	512
Number of Schools of Greater New York supplied...	200	300	325	383	419	334	486
Number of Pupils studying the Collections	375,000	800,000	725,000	575,801	922,512	839,089	1,253,435

The department has continued to supply various branch libraries of the City, as requested by Miss Annie Carroll Moore, the Supervisor of the Children's Rooms of the Libraries. These collections have been largely ethnological, representing the culture of the Indians, Eskimo, Chinese, Japanese, Koreans and Africans, and have been useful in stimulating the children to read good books pertaining to these people.

LECTURES TO SCHOOL CHILDREN.—Two courses of eighteen lectures each have been given to school children during the year. These lectures are fully illustrated with lantern slides and in some instances with moving pictures, and are of material assistance to teachers in their geography and history courses. The total attendance for the two series of lectures was 22,797 pupils. In this connection we wish to acknowledge the generosity of Mr. Theodore A. Price in loaning a moving picture film illustrating the cotton industry. Many special lectures have also been given by the instructors and members of the scientific staff, and the teachers themselves have made extensive use of our series of lantern slides.

A fund has recently been given by Mr. Henry Phipps for the purpose of supplying carfare to children who, without this aid, are unable to come to the Museum.

GENERAL LECTURES.—In addition to the informal lectures to children, the usual general lectures have been given. These include a spring and a fall course to Members of the

Museum, a series given on Tuesday and Saturday evenings, from October to May, under the auspices of the Board of Education, free lectures on public holidays, special lectures in conjunction with the New York Academy of Sciences and Affiliated Societies, and a course of Jesup Lectures, given under the auspices of Columbia University. The attendance at these lectures was 61,157.

CHILDREN'S ROOM.—The Children's Room has been remodeled to give it greater seclusion, and several new exhibits have been added. These include a collection of dolls of all peoples and a series of interesting and bizarre fishes. The room has been open regularly on Wednesdays and Saturdays, except during August and September. The attendance for the year was 3,108.

The Museum participated in the Child Welfare Exhibit, held in the Seventy-first Regiment Armory, in January and February.

ROOM FOR THE BLIND.—Probably no collections in the Museum give greater pleasure or are more highly appreciated than the collections examined by the blind. The difficulty experienced by the blind in reaching the Museum, combined with their natural timidity, is one reason why the attendance has not been greater. A portion of the income of the Jonathan Thorne Memorial Fund is being devoted to the preparation of relief maps and models of animals to be loaned to the public schools where the blind are taught. In April the Museum participated in the Blind Workers' Exhibit at the Metropolitan Opera House.

PHOTOGRAPHY.—The photographic work has been of a routine nature. The reference file of photographs now numbers over 26,000; the file of negatives numbers over 20,000; the file of lantern slides numbers over 35,000, of which about 15,000 are colored.

Mr. A. Radclyffe Dugmore has deposited in the Museum his entire series of negatives, taken in 1909, and the Museum has acquired also 535 negatives of reptiles and amphibians,

taken by Mr. Raymond L. Ditmars, Curator of Reptiles, New York Zoölogical Society. It is hoped that other photographers will deposit their negatives with the Museum for permanent record.

The most notable accession of the year is the Bickmore series of lantern slides. This collection comprises about 20,000 slides, of which 12,000 are colored. It was made by Professor A. S. Bickmore during his long connection with the State Department of Public Education. Professor Bickmore and his wife, Charlotte B. Bickmore, have presented these slides to the Museum. They are particularly valuable not only because of their association with the work of Professor Bickmore, but because the original negatives from which many of them were made were destroyed in the disastrous fire in the Capitol at Albany.

MINERALS

L. P. GRATACAP, Curator

DEPARTMENT OF MINERALOGY.—The past year has been signalized by the removal of the entire mineral collection from the former Morgan Hall to the new hall in the West Wing, formerly occupied by the Mexican antiquities. This was accomplished early in the year in a provisional and imperfect manner. Since then the efforts of the department have been exerted in bringing this array of material into order, intercalating in it some 3,000 specimens, which, from deficiency in exhibition room, had been previously stored away in drawers. The systematic collection is thus quite exhaustively shown. Additions of maps (numbering almost 100), the installation of wall-case specimens, and the preparation of the large metallic cases in the center and on the sides of the main corridor, have taken up considerable time. The theory of arrangement is now: first, an attractive display of the principal minerals in large and showy specimens in the center of the hall and in the east and west wall cases, meeting the needs of the general visitor, who is assisted by large head labels; second, the installation, on the sides of the hall, of the extended series of minerals intended for the student and collector, and for the



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

THE ZEBRA GROUP

Mounted by Frederick Blaschke. Measurements from life and the skins for this group were obtained by Mr. Herbert Lang on an expedition to British East Africa in 1906. The great nervous activity of the Zebra is well shown in the alert pose of the male

more careful and observant visitors. This collection will be further coördinated by framed lists over each section, detailing its contents, so that visitors can readily find the particular mineral they wish to see.

Large maps, showing at a glance the mineral resources of each State, are in course of preparation. Through the generosity of the President and Trustees of the Nevada Consolidated Copper Company, the Museum is to receive a large wall painting, for the Morgan Hall of Minerals, of the "shovel-pit" at their enormous properties at Ely, Nevada. The painting, which is being executed by the artist Mr. Albert Operti, is nearly finished, and has already received commendation. The engineers of the Company have been most helpful in supplying information and offering suggestions.

The accessions of the past year have been gratifying, and the expenditure of the revenue from the Bruce Fund has added to the collection many important and attractive specimens. Accessions claiming precedence are Benitoites and Neptunite, Beryls and Tourmalines from California, an interesting exchange from Japan, many new and unusual minerals, with interesting examples of more representative species, and a very brilliant assemblage of cut and polished Agates from Miss Elvine Richard, of New York City.

MAMMALS AND BIRDS

J. A. ALLEN, Curator

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The accessions in mammalogy exceed in number those of recent years, and include a number of species of very great rarity and importance. The accessions in ornithology exceed by three-fold those of any recent year and are especially important in their bearing upon the distribution and relationships of the birds of western South America.

As usual, we have received during the year many mammals and birds in the flesh from the New York Zoölogical Society and from the Central Park Menagerie. These include a number of species of both birds and mammals of unusual interest. We are also indebted to Mr. C. William Beebe for a small

collection of mammals from Borneo and north Burma, all of the species represented being new to our collection and several of them of special scientific importance. We are indebted to Mr. Walter Winans for a series of specimens of the Wild Boar from Germany, which have furnished the material for a group of this interesting species, now nearly completed. We are also indebted to the Honorable Theodore Roosevelt for two skins of the White Rhinoceros.

We have received nothing during the year from the Museum's Stefánsson-Anderson Arctic Expedition, nor from the Congo Expedition under Messrs. Lang and Chapin, but letters from the members of these expeditions indicate that they have been very successful in their field work. Recent letters from the Congo Expedition state that the collection of mammals now numbers 2,400 specimens, and that the birds collected number over 3,200 specimens.

Mr. Carriker has continued his work in northern Venezuela during the greater part of the year, and has sent to the Museum nearly 250 specimens of mammals.

Through arrangements made by Mr. R. C. Andrews, during his visit to the Philippines and Japan in 1910, we have received a complete specimen, skin and skeleton, of the Tamarau from Mindoro, and a skeleton of the rare Berardius Whale from Japan.

One of the great events of the year was the expedition to Lower California, under the direction of Dr. Charles H. Townsend, and financed by Mr. Arthur Curtiss James. The expedition resulted in the addition of nearly 300 mammals and 800 birds collected on the lower part of the Peninsula and various adjacent islands. The mammals include four skins and skulls and two complete skeletons of adult Elephant Seals from Guadalupe Island, a species now on the verge of extinction.

The greatest source of new material for both mammals and birds has been the expedition organized by Mr. Chapman for the exploration of western Colombia and neighboring parts of South America. As noted in last year's report, Mr. W. B. Richardson, who had formerly collected for the Museum in Nicaragua, was sent to western Colombia in October, 1910,

and continued at work in that region until September, 1911, when his contract expired. In March of the present year he was joined by Mr. Chapman, Mr. Louis A. Fuertes, the artist, and Mr. Leo E. Miller, and for several months the work of the whole party was carried on under the immediate direction of Mr. Chapman. He then returned to the United States by way of the Magdalena River for the purpose of making a reconnaissance for further work in western South America. After his return Mr. Arthur A. Allen, of Cornell University, was sent to replace Mr. Richardson in the field. Explorations have been made from the Cauca Valley across the coast range to the westward along several lines, and the work has been attended with the most satisfactory results; over 3,000 birds and over 400 mammals have already been received. Recent letters from the field indicate that the total collections for the year will be over 5,000 birds and about 700 mammals. An unusually large proportion of the species of both mammals and birds are new to the collection, and many are new to science. Arrangements have been made for continuing the work during 1912, when the scope of the work will be extended to other contiguous fields of equal interest. The Andean section is a region of highly diversified physical features, resulting in very diverse conditions of environment. Collections are being made systematically from sea-level to the summits of the coast and main ranges, which include areas of heavy precipitation and great aridity, conditions which strongly impress themselves upon the character of the fauna.

Several large mammals have been added to the exhibition series, and work is in progress on several mammal groups; the Wild Boar Group, consisting of seven specimens of this interesting species, presented by Mr. Walter Winans, is nearing completion, as is also the Mount Orizaba Life-Zone Group. The series of specimens of the Greenland Walrus, mounted a number of years ago, have been combined in a group and installed in the east section of the Mammal Hall.

The local mammal groups have been removed from the west corridor on the mammal floor to the North American Mammal Hall and reinstalled with painted backgrounds.

The mammals collected by Mr. Carriker in Venezuela and part of those collected in Colombia have been identified by the Curator, and Mr. Andrews has prepared two papers on cetacean material gathered by him in Japan. Mr. Miller has continued work at available intervals from routine work on a comprehensive paper on the birds of Nicaragua, and has also prepared a monographic revision of a genus of kingfishers. Mr. Chapman has made provisional identification of the birds received from Colombia preparatory to describing the many new forms that the collection contains. Six papers have been published during the year representing this department; these include two by Assistant Curator Andrews on cetaceans and two by the Curator—one on the mammals of Venezuela, and the other on the mammals collected by Mr. Andrews in the Dutch East Indies. There is also a short paper by Dr. D. G. Elliot on "The Generic Name *Cercopithecus*," and a long paper on the very important subject of "Revealing and Concealing Coloration in Birds and Mammals," by the Honorable Theodore Roosevelt.

The current catalogue of mammals is complete to date, and much advance has been made in the preparation of the index, although much still remains to be done to complete the index catalogue, the osteological material not yet having been reached. The birds are nearly all catalogued to date, including those received the present year from Colombia.

EXTINCT VERTEBRATES

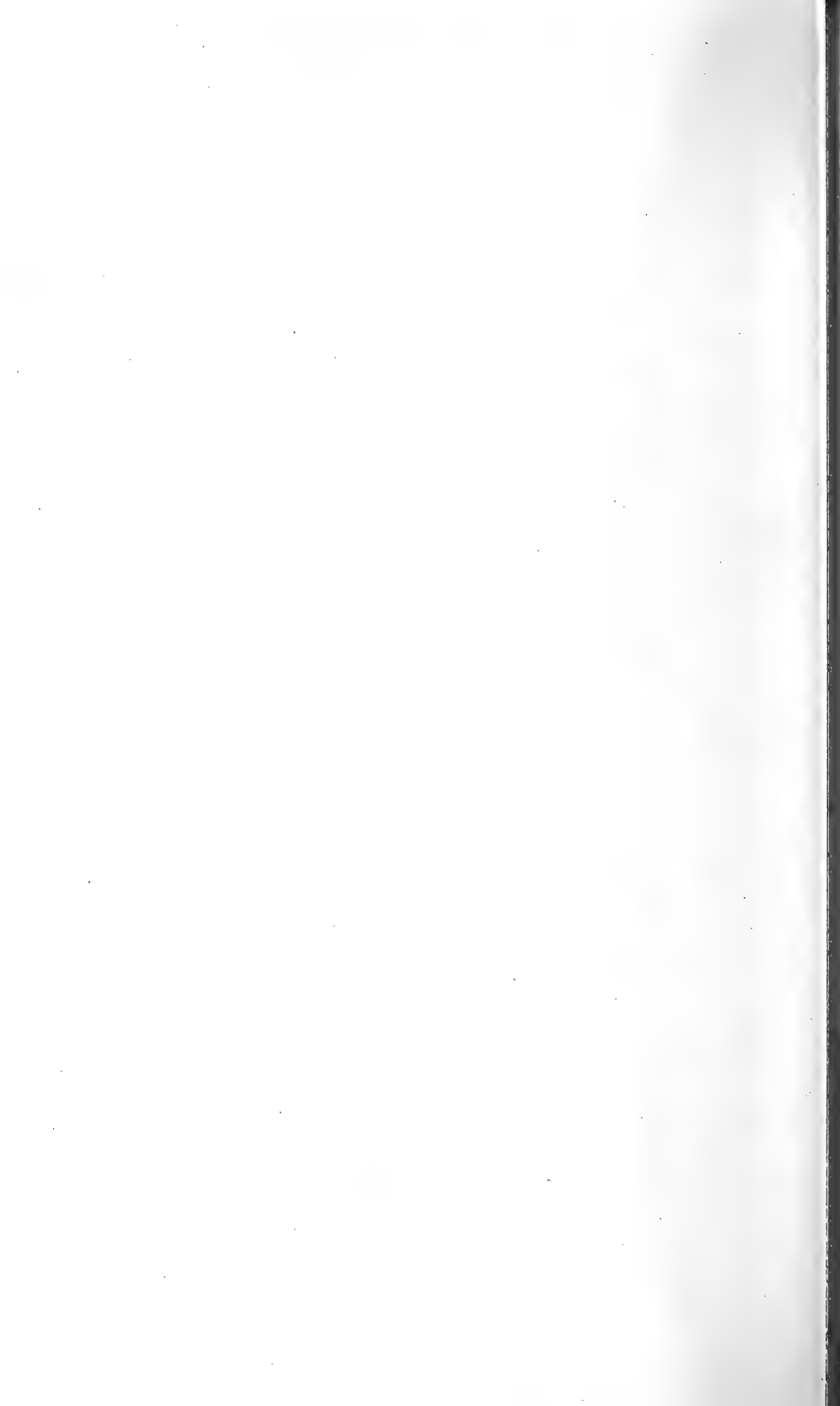
HENRY FAIRFIELD OSBORN, Curator Emeritus; W. D. MATTHEW, Curator

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The principal accessions for the year have been through Museum expeditions in charge of Messrs. Barnum Brown, Walter Granger and Albert Thomson.

In the early part of the year Mr. Brown investigated a number of reported discoveries of fossil mammals in the southern United States, Mexico and Cuba. Two important specimens were obtained in Mexico, a complete carapace of *Glyptodon* and the lower jaw of a peculiar type of *Mastodon*; and several promising fields for future exploration were dis-



DEPARTMENT OF VERTEBRATE PALÆONTOLOGY
THE GROUND SLOTH GROUP IN THE NEW QUATERNARY HALL



covered. In Cuba he secured jointly with the Havana Academy of Sciences a large collection of fossil vertebrates, of peculiar interest since practically nothing has been known hitherto of the extinct animals of the West Indies. During the summer he continued the search for Cretaceous Dinosaurs on the Red Deer River, Alberta, and collected a series of fine specimens, of which the most important are a complete skeleton of a new Duck-billed Dinosaur, skulls of Carnivorous and Armored Dinosaurs, and several partial skeletons of new or little known types.

Mr. Granger continued work in the Big Horn Valley, Wyoming, and added a large collection of the fossil mammals of the Lower Eocene to those obtained by former expeditions.

Through the courtesy of Mr. Harold J. Cook of Agate, Nebraska, the Museum party in charge of Mr. Thomson opened up a section of the great fossil quarry at that locality, and obtained a skull and other parts of the "Giant Pig" *Dinohyus*, seventy-five skulls of the Pair-horned Rhinoceros, and other material.

Exchanges with the Museums of Basel and Vienna, the British Museum and Yale University Museum have also enriched our collections with specimens and casts, chiefly of European fossils.

In the exhibition halls, the most important changes are the transfer of the Proboscideans and South American mammals to the new Quaternary Hall, formerly the Mineral Hall, and the rearrangement of the remaining fossil mammals in the Tertiary Mammal Hall. A new method of installation for wall-case exhibits has been adopted, the specimens being mounted on vertical panels adjustable to the necessary depth in the case, the shelves, racks and visible mountings being eliminated as far as possible so as to concentrate attention on the specimen and label. The exhibit showing the Evolution of the Horse has been reinstalled in this way and considerably extended in its scope. The reinstallation of the Amblypoda alcove is in progress, and other alcoves will be taken up in their turn.

The exhibit of South American Fossil Mammals is in large part new, the most important additions being the group

of giant Ground Sloth skeletons, the skeletons (casts) of *Toxodon* and *Macrauchenia*, and the skeleton of a small primitive Ground Sloth. Four skeletons completed last year have been installed in the Dinosaur Hall, and the Fort Lee Reptile has been prepared and placed on exhibition in the corridor opposite the elevator, together with the skeleton of a smaller relative from North Carolina.

The greater part of the collections of Cretaceous Dinosaurs and Eocene mammals secured by Messrs. Brown and Granger in 1910 have been prepared, a few to be mounted for exhibition, the remainder reserved at present for study and description. This work has occupied the major part of the time of the laboratory staff.

The zoölogical catalogue of fossil mammals has been completed by Dr. Matthew and Mr. Granger.

Professor Osborn has continued his researches upon the Titanotheres with assistance of Dr. Gregory. Dr. Matthew and Mr. Brown have published a number of short popular articles and notices for the *Museum Journal*. A new edition, revised and extended, of the leaflet guide to the Evolution of the Horse, is nearly completed, and one on the Dinosaurs is under way.

EXISTING REPTILES, BATRACHIANS, RECENT AND EXTINCT FISHES

BASHFORD DEAN, Curator

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—There have been many changes in the exhibition halls of the department during the past year. The cases showing the zoölogical succession of fishes, amphibians and reptiles (synoptic series), have been notably enriched, and many of the specimens have been modeled and colored from living material. Of the models introduced there were 30 of fishes, 30 of amphibians, and 20 of reptiles. These represent "types" which have long been needed to fill gaps in the series, including, for example, lung-fishes, chimæroids, primitive salamanders, hagfishes, some of which, by the way, were found particularly difficult to model.

In certain instances—as in the newt, tree toad, turtles, various frogs, horned toads—not only is a species represented, but it is shown in several specimens, so that the same “mount” may illustrate such features in the animal’s economy as color changes, fighting, molting. In this line of exposition a number of instructive new “habitat groups” have been prepared and placed on exhibition. Foremost of these is the swamp scene, which shows bullfrogs and other amphibians, and which illustrates such of their habits as capture of prey, shedding of skin, fashion of swimming, feinting and feeding. This is the *chef d’œuvre* of Miss Dickerson, assistant curator of reptiles in the department, who for years has been a close student of the frogs. Another group pictures an Indian lizard, a monitor, in its native surroundings; another represents the moccasin with its young, together with kindred forms, in a nook in a cypress swamp. Other groups completed include rattlesnakes, copperheads and iguanas. These “habitats” have been found very attractive to the average Museum visitor, and it is hoped that a number of similar cases will be brought to completion during the present year. One of these is to represent the spoonbill sturgeon of the lower Mississippi; it will form a large group, picturing a school of the rare sturgeons swimming near the muddy bottom of a Mississippi lake, and with them such of their neighbors as gar pikes, “buffaloes” and catfishes. The material for this exhibit was obtained by Dr. Hussakof and Mr. Franklin during their expedition to Moon Lake in 1910. In train, too, is a group of southern Californian forms, which will show the desert conditions under which many forms of lizards thrive.

Especial effort was made during the past year to improve the details in the installation of the cases in the exhibition halls. In the Gallery of Recent Fishes the entire series of casts, stuffed skins and skeletons, has been rearranged; the background of all cases has been changed; the hall has been repainted and more than 200 new labels have been introduced. In the Reptile Gallery similar important alterations have been made.

The year has been especially fruitful in gifts: 33 donors have contributed in round numbers 250 fishes, 200 amphibians

and 200 reptiles. Accessions from expeditions and purchases have amounted to over 1,200 specimens of fishes (of which 200 were fossil), 150 amphibians and 50 reptiles. Exchanges are also to be recorded with various museums, mainly European.

EXISTING FISHES.—For accessions in the field of fishes in general, the department is greatly indebted to Mr. Cleveland H. Dodge, who has provided a fund which makes possible the purchase of important material and the equipment of expeditions. From this source have come many of the specimens noted in the appended list of accessions. The Museum's expedition to the Pacific coast, especially in the region of southern California, has been fruitful in recent fishes. The cruise of the *Albatross*, under the direction of Dr. Charles H. Townsend, has brought to the Museum in round number 1,000 specimens of fish. Of these the greater number are new to our collections. The deep water forms are especially important, including about 200 specimens and about 45 species. The shore fishes of this expedition contribute 100 species unrepresented in our list. Of particular interest is the fact that casts of many of the rare forms were taken from fresh material by Mr. Bell, who accompanied Dr. Townsend for this purpose. This is the first time that casts of freshly taken deep water fishes have been prepared.

Among the important exhibits introduced in the Gallery of Recent Fishes may be mentioned a series (models in wax prepared by Mr. Horter) representing all the genera of hag-fishes and lampreys—the first, we believe, exhibited in any museum—and of particular note, since the group illustrates, more or less accurately, the beginnings of back-boned animals. Another case represents a number of chimæroids—curious shark-like fishes, mainly from deep water—which have been held by many to represent the oldest form of vertebrates to reach the stage of skeleton and paired limbs. These fishes have been modeled from well preserved specimens, and are colored after sketches from life, made by the Curator during trips to the Pacific. Chimæroids, it may be mentioned, are rare, and few have been exhibited even in the largest museums. The case of ganoids, installed during the past

year, is also noteworthy: it represents various species of gar pikes, carefully mounted and colored from drawings of freshly caught specimens. In this series appears for the first time, we believe, a model of the rare Chinese spoonbill sturgeon, *Psephurus*, together with an excellently colored model of *Polyodon* from the southern Mississippi, which was (in part) prepared on the spot by Mr. Franklin. The hall of recent fishes exhibits also a number of newly completed models of bony fishes, carried out under Mr. Nichols' supervision, including curiously specialized forms like the seaweed fish, trunkfish, morays and pipefish, together with a dozen or more well mounted skins obtained from Mr. Denton. Of particular merit are mounts of trout and cyprinoids, prepared by Mr. Francis West, in the Maine woods, from freshly caught specimens.

The *Polyodon* Group will occupy a position in the outer hall of the Gallery of Fishes, and will be installed as soon as a background is painted. Adjoining this case space has been left for two groups, one of which will exhibit types of pelagic fishes and the other forms from deep water, for which the admirable casts obtained by the *Albatross* will be used.

FOSSIL FISHES.—From the Dodge Ichthyology Fund an expedition was arranged to visit the classical Devonian localities in Ohio. Dr. Hussakof, during the summer, visited the exposures in the neighborhood of Cleveland, Lorain, Delaware and Sandusky, and brought back about fifty concretions containing specimens of notable value. In this field little collecting had been done during recent years, and it was found that many fossil-bearing concretions had become exposed, ready for harvesting.

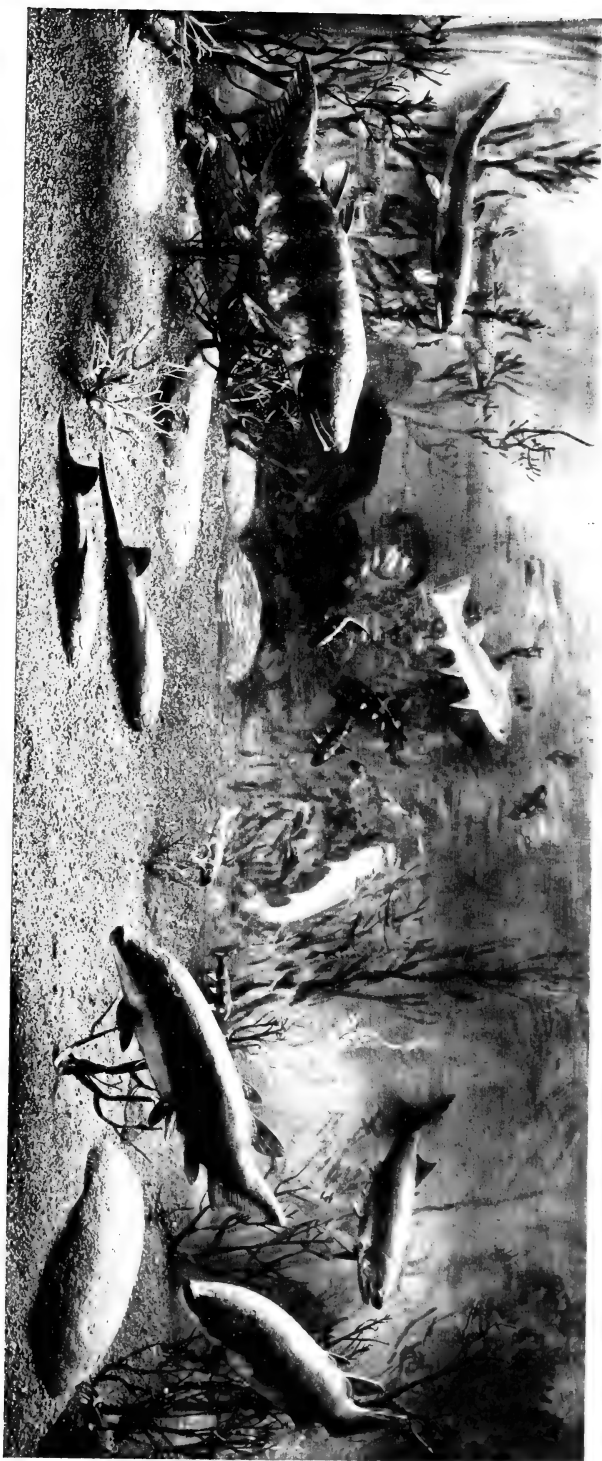
In the Fossil Fish Hall many changes have been made. The policy has been continued of exhibiting few specimens, and admirable ones. As far as practicable the plan of exhibiting specimens on shelves has been abandoned: material appears attached to panels, and the result is clearly attractive. A number of new exhibits have been installed. A "fossil aquarium," which represents models of a number of Old Red Sandstone fishes posed as living, has proved a great addition

to the gallery. It has been arranged under a window in such a way that artificial light need not be used.

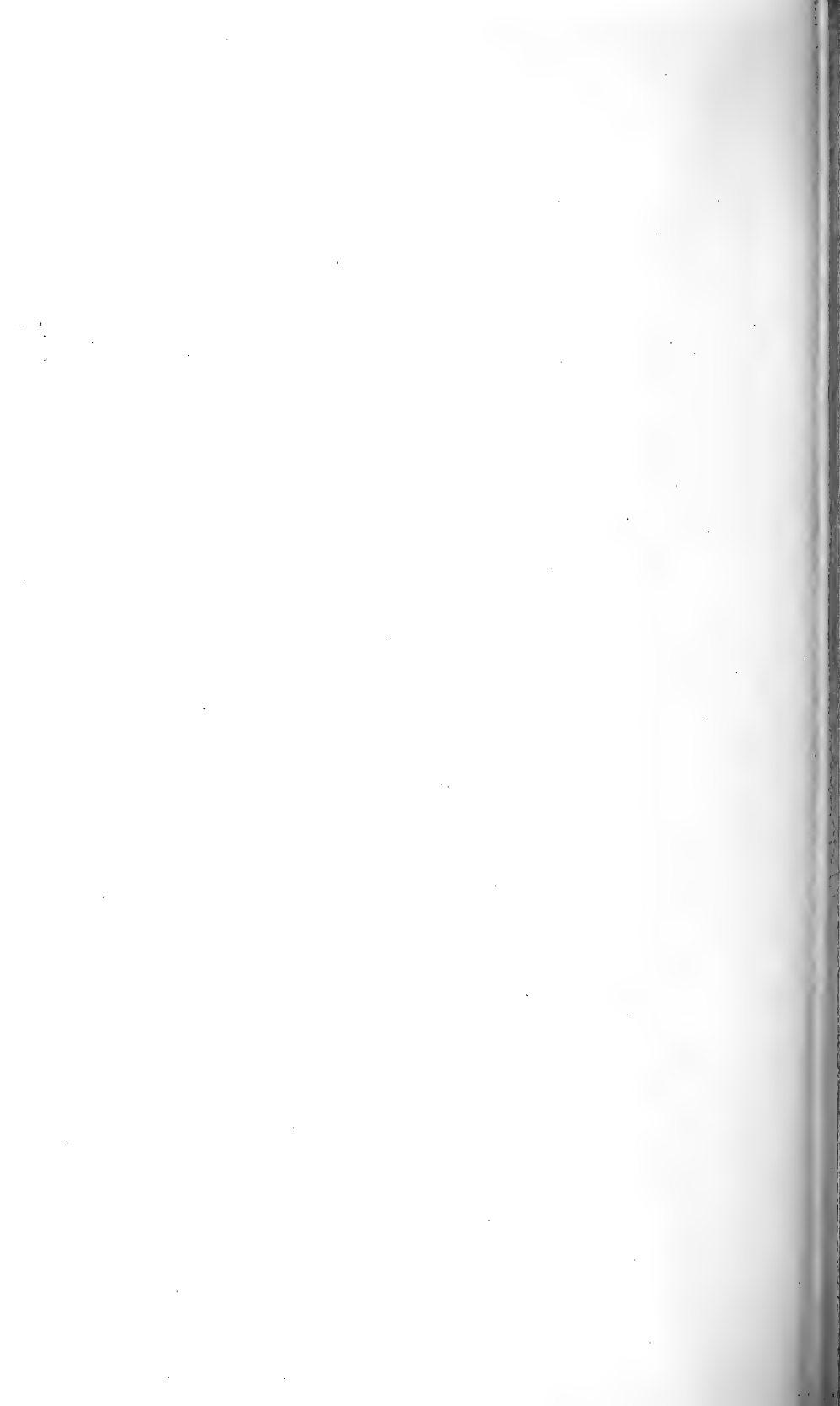
AMPHIBIANS AND REPTILES.—The department is especially indebted to the New York Zoölogical Society, through its Director, Dr. Hornaday, and its Curator of Reptiles, Mr. Ditmars, for the donation of a large number of rare forms. And it is from these, in many cases, that models have been cast and colored. As already noted, excellent progress has been made in preparing accurate models for the synoptic series, much to the improvement of the exhibition hall. This has also been bettered by a rearrangement of cases, which have now been transposed from the south to the east end of the large (east) hall on the second floor, and have been so placed that they form a partition separating the exhibits of amphibia-reptiles more completely from the rest of the large hall. Adjoining this gallery a room is now provided as a home for the "habitat" groups of reptiles and amphibians. This is practically a separate room, circular in outline, in the tower, and can be kept darkened—an especial advantage, since the visitor may stand in shadow and look on all sides into cases brightly lighted, after the fashion of the new "habitat" bird groups. The success of the first group in this gallery, showing bullfrogs, was immediate and encouraging. The introduction of a number of other "habitat" groups in separate cases in the main gallery has already been noted.

STUDY COLLECTIONS.—Study material, as mounted specimens, or preserved in formalin or alcohol, has increased to such a degree that the room for its storage has become inadequate. A neighboring storeroom accordingly has been provided by the Director, and in this, as well as in the old room, a series of new metal storage cases, after the Washington scheme, will be installed.

AQUARIUM EXHIBITS.—In order to give the exhibits in the halls of recent and fossil fishes a living interest, a number of small "balanced" (still water) aquaria have been installed. In the Hall of Recent Fishes the aquaria are arranged to illus-



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY
THE NEW "FOSSIL AQUARIUM" IN THE FISH GALLERY



trate, with living material, several features of general interest which cannot well be shown in casts or preparations: among these are sexual differences (colors), breeding habits (nesting or viviparity), variation under domestication,—features explained by descriptive labels accompanying the jars.

In this connection we should mention the annual meeting and exhibition of the Aquarium Society, which was held in the Museum, under the auspices of the department. This was largely attended, and its contributors deserve great praise for the interest and importance of their exhibits. Many tropical fishes were shown which apparently had never before been brought living to America.

EXISTING INVERTEBRATES—DARWIN HALL

HENRY EDWARD CRAMPTON, Curator

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—The scientific staff has been increased by the addition of Mr. Charles W. Leng, as Honorary Curator of Coleoptera. In the distribution of duties and in other routine respects the departmental organization remains the same.

The most noteworthy feature of departmental progress during the past year has been the increased development of field and exploration work. No fewer than seven expeditions have been sent out for longer or shorter intervals, and their work has been coördinated through its relation to the larger tasks which the department has set for itself, namely, the study of the distribution, evolution and migration of the faunas of North and South America. As these continents form the most natural territory for field studies in invertebrate zoölogy, plans have been formulated for work to extend over ten years at least upon the problems specified. Particular attention must be directed to the changes which took place after the close of the Glacial Period, by which the North American fauna then existing was amplified by immigration from South America. Further knowledge of the former continent is no less essential than discoveries of new forms in the latter area.

For these larger purposes our expeditions have been planned and carried out. During the spring Mr. Grossbeck spent several weeks in Jamaica securing a collection that is naturally small on account of the early period of the year, but which is exceedingly interesting as it gives an indication of the character of the invertebrate fauna at a time during which collections are rarely made. Dr. Lutz, with the coöperation of many members of the New York Entomological Society, continued his studies of the insect fauna in the neighborhood of New York. Late in May Dr. Crampton, Mr. Miner and Dr. Lutz undertook an extended expedition to the West Indies and South America, for which funds were generously provided by the late Mr. Charles H. Senff. Three weeks were devoted to relatively intensive work in the Island of Dominica, while small collections were obtained in numerous other islands of the Lesser Antilles. Mr. Miner returned to New York in July and later proceeded to Nahant, where, with the aid of several members of the preparation room staff, further studies were made with a view to the construction of the Tide Pool Group. Meanwhile Dr. Crampton and Dr. Lutz continued to British Guiana where extensive collections were obtained from the lower levels near the coast and from the forest and plateau in the neighborhood of Kaieteur Falls. Here Dr. Lutz remained until the middle of August to make more thorough studies of the invertebrate fauna, while Dr. Crampton continued through the forests of British Guiana and across the savannas of northern Brazil to Mount Roraima. This expedition secured many thousands of specimens from various ecological regions and from different barometric levels, from regions which are of particular importance for the study of the larger problems under consideration.

During the summer Mr. Beutenmüller devoted more than three months to field work in the Black Mountain region of North Carolina, utilizing funds provided by Mr. Samuel V. Hoffman. Professor Treadwell carried on field work in Connecticut during the same period. Finally, in November, Dr. Lutz and Mr. Leng, accompanied by Mr. W. T. Davis, prosecuted field studies in northern and southern Florida with extremely gratifying results.



DEPARTMENT OF INVERTEBRATE ZOOLOGY

THE MUSEUM'S EXPEDITION TO BRITISH GUIANA. A Successful Capture by the Guiana Carib Indians of the Museum's Party

INVERTEBRATES IN GENERAL.—In developing the exhibits in the Darwin Hall, the habitat groups of marine invertebrates have received special attention, although several new alcoholic preparations and other specimens have been added to the Synoptic Series, while nine models, chiefly of Protozoa, have been completed. The Annulate Group has been temporarily installed in the window of its proper alcove, and great progress has been made in the construction of the Pile Fauna Group and the Tide Pool Group. Properly to represent these complex animal associations, with the details of their natural surroundings, demands unusual care and skill; furthermore, the individual models of the animals themselves must be very numerous. For example, the completed models for the Wharf Pile Group comprise fifty colonies of *Tubularia*, three colonies of *Bougainvillea*, one hundred and seventy-five models of *Hydroides*, eight colonies of *Amarœcium*, twelve of *Cynthia* and other Ascidians; in addition, large models of *Dactylometra* and of numerous other forms are partly completed. Again, nearly two score models of worms and molluscs have been required for the Annulate Group. As the preparation room staff has been so engrossed with work for the above exhibits, the special installations illustrating Darwinian principles have been retarded, but their construction will proceed immediately.

The remainder of the invertebrate study collections has been finally arranged, catalogued and installed in the fireproof cases. The notable accessions in this division are the collections obtained through the work of departmental expeditions.

As regards scientific work, the important catalogue of Spiders by Dr. Petrunkevitch has been published. Dr. Crampton's book on "The Doctrine of Evolution" has also appeared, and other researches are nearly ready for publication. Mr. Miner has continued his work upon Myriapods, while Professor Treadwell has been engaged in the preparation of reports upon Annulates secured by various expeditions of the Museum and of other institutions.

INSECTS.—Marked and gratifying progress has been made in this division during the past year. Through field work in many regions, especially in Jamaica, Dominica, British Guiana,

Brazil and Florida, the department has acquired several thousand specimens, a great many of which are new to science, judging from the groups already studied. The collections are rendered more valuable through the copious field notes accompanying them, so that they are available for important studies in general biology.

The Williston Collection of Tropical Diptera has been acquired during the year. This valuable series has been labeled and sorted, and a list of 395 type specimens has been prepared for publication by Mr. Grossbeck; this task has required nice discrimination, as in the majority of cases there was no type label attached to the specimen.

Two other collections have been received which comprise different but equally important kinds of types, namely, types of experimentally produced forms, similar to the series received last year from Prof. W. L. Tower. Prof. T. H. Morgan has donated numerous examples of fourteen of the new forms of *Drosophila ampelophila* which he obtained by selective breeding, while the New York Entomological Society has generously purchased and presented to the Museum the Lepidoptera which Mr. Otto Seifert had reared under changed environmental conditions during their developmental stages.

The heirs of the late Rev. J. L. Zabriskie presented his large general collection of insects to the New York Entomological Society, which in turn presented it to the Museum. This collection is especially valuable on account of the great number of local records accompanying the specimens. The department has also received by gift large general collections from Dr. J. H. Stebbins and Mr. J. A. Grossbeck.

The degree of progress in this division is partly indicated by the striking fact that during the year it has acquired nearly one hundred thousand specimens. It is apt to be overlooked that all these specimens must be cared for individually and that the labor involved is literally prodigious. At the beginning of the year a great mass of unlabeled and unsorted material still remained for arrangement. The fact that the new year has begun with nearly clear tables, as far as the general manual work is concerned, speaks most highly for the efficiency of the few assistants upon whom this work has devolved.

The most important research work of the year on insects is that by Mr. C. W. Leng, on the genus *Brachyacantha*. Mr. J. A. Grossbeck has continued his studies of the Geometridæ, although most of his time has been devoted to the care of the general collections. Dr. Lutz has made some advance in his work on the factors of evolution, but during his absence in the field the strain most used in breeding work unfortunately died, so that some time will be lost in developing it anew. Mr. Beutenmüller has made progress in his work on the monograph of the genus *Catocala*, and he has also continued his field studies in the Black Mountain region of North Carolina. The New York Entomological Society has continued its study of insects within fifty miles of New York with marked success, and although this shows immediate results in the amplification of the local collections, it is mentioned in connection with research to emphasize the fact that the work constitutes a larger and more general biological study, and is not merely the collection and labeling of specimens.

MOLLUSCS.—Donations to this division during the year include more than 300 specimens from various parts of the world, given by Mr. A. D. Gabay, more than 900 shells from Miss Elvine Richard, and a series of West Indian specimens representing thirty-five marine genera given by Mr. George Silly. Valuable material has been acquired through exchanges with Coe College and Mr. Maxwell Smith. During his work in the Northwest, Mr. Barnum Brown secured a large collection, particularly of land shells, while a small lot of beach forms has been received from the Stefánsson-Anderson expedition in the Arctic. The expedition to Lower California conducted by Dr. Charles H. Townsend also obtained a considerable number of valuable marine shells.

During the first part of the year the removal of the exhibition collections from the 5th story to the 3d was completed.

The shell collection contains all together about 100,000 specimens, representatives of nearly 15,000 species. These show extraordinary range of color and ornamentation. The arrangement of the collection is still incomplete, but the installation will be as follows: first, in the south wall cases

will be placed a series showing briefly the classification of molluscs; second, in the eight table cases at the north and south ends of the hall the collections of land shells; third, in the upright railing cases the bivalves or molluscs which have two shells like the common clam; fourth, in the metallic cases the univalves, molluscs which have only one valve or shell like the snails; fifth, special exhibits of shells in the north wall cases. Other cases will contain exhibits illustrating the anatomy and habits of molluscs; colored transparencies will show them in their habitats.

Particular emphasis must be put upon the importance and necessity of a systematic study collection, separate from the exhibition series. Great numbers of small forms, abyssal types, and rare obscure varieties are already in hand and others will undoubtedly come to the department; these can never be introduced successfully into the exhibition series. Separate provision in the shape of reserved cabinets must be provided for the security and study of special collections, such as shells secured by an expedition to Lower California, those obtained from the Fish Commission, and from departmental expeditions in the Antilles and South America, as well as through exchanges.

Owing to the urgent demands upon his time made by the transfer and care of the shell collections, Mr. Gratacap has necessarily postponed his projected visit to Porto Rico for the collection and study of the molluscan fauna of that island. It is hoped and expected that this deferred expedition will be made at an early date.

GEOLOGY AND EXTINCT INVERTEBRATES

EDMUND OTIS HOVEY, Curator

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The growth of this department has continued along some lines of general and economic geology as well as of invertebrate palæontology.

Mention of only a few of the more important accessions can be made. Mr. Albert Operti, the artist, presented a series of twenty-two oil sketches made by him on the Peary

polar expeditions of 1896 and 1897, when the great meteorites on Cape York, Greenland, now in the Foyer of the Museum, were visited and secured. From Dr. George H. Girty of Washington, D. C., came as a gift some 800 well-selected, cleaned and labeled invertebrate fossils from Cambrian and Devonian beds at several typical North American localities. Many interesting gold, silver and copper ores from localities in Alaska were received as a gift from the Honorable William Sulzer. A large series of invertebrate fossils, comprising representatives of more than 1,000 species illustrating the Triassic, Cretaceous and Tertiary palæontology of the Vienna Basin, was received from the Imperial Natural History Museum at Vienna, Austria, in exchange for vertebrate and invertebrate fossils. A large amount of petrified wood was obtained from the famous "forests" near Adamana, Arizona, on special permits from the federal Department of the Interior, most of which was collected by the Curator on a special expedition. On this expedition, supplementary material was obtained at Bisbee, Arizona, for the interior and the exterior of the Copper Queen cave which is being built in the department. Some interesting trilobites, ancient crustaceans, were received from an expedition maintained near Lancaster, Pennsylvania. The great collection of fossil plants and insects from Florissant, Colorado, obtained by expeditions in which the Department of Invertebrate Zoölogy participated years ago, was turned over to this department and part of it placed on exhibition. A beautiful model, 1/40 natural size, of "Pulpit Rock," Nahant, Massachusetts, was purchased as a good example of the naturalistic school of modeling natural scenery which is now coming into deserved prominence.

The Curator visited the town of Russell, St. Lawrence County, New York, in August, to inspect a particularly perfect glacial pot-hole whose existence had been reported to the Museum. The pot-hole being found to be in a conveniently situated ledge, arrangements were made with the Gouverneur Marble Company to cut it out. The excavation was successfully effected, and the block containing the hole will be transported to the Museum during the cold weather. The pot-hole is 2 feet in diameter and 4 feet in extreme depth.

This will form a most instructive companion piece to the great glacial groove slab that was secured on Kelley's Island in 1909 through the Dr. C. E. Slocum Fund. The Curator spent the month of October in Arizona collecting the material already mentioned as coming from Bisbee and Adamana. Messrs. S. S. and I. S. Simons were employed for several weeks collecting the Cambrian trilobites that came from near Lancaster, Pennsylvania. Special assistants were employed in the summer, and much progress was made in overhauling and placing catalogue numbers on the rock collections in the department. The great Hitchcock series illustrating the lithology and general geology of Vermont and New Hampshire is now in better shape for study than ever before. Steady progress has been made on the model of the Copper Queen Mine, three and sometimes four men being employed upon the work at once. The building of the wooden form for the surface and the modeling of two sections thereof were completed. Several experimental studies were made for the representation of the underground portion of the mine, which is the part of the work that presents the most difficult problems.

For various reasons, the rearrangement of the hall mentioned in the last annual report has not been begun, but it will be undertaken at an early date. A model of the proposed gallery and floor cases was prepared and filled with specimens to show different methods of installation. The specimens illustrating historical geology present more difficult problems regarding installation than do those of any other branch of natural history, and an effort is being made to secure results that shall be not only instructive but also pleasing to the general public as well as to visiting scientists.

The work of the department was interrupted somewhat through the Curator's being detailed to service as Acting Director of the Museum for three months of the year.

EXISTING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator

DEPARTMENT OF ANTHROPOLOGY.—Among the ninety or more accessions to our collections were five of the first import-



DEPARTMENT OF ANTHROPOLOGY

THE STATUE OF THE MAORI WARRIOR ON THE LARGEST KNOWN BLOCK OF JADE

ance. Among these may be mentioned the General U. S. Hollister Navajo Blanket Collection, which gives us a fairly complete series of these unique and interesting textiles. Dr. Carl Lumholtz, the famous explorer, made an expedition to the little known parts of northern Mexico and southern Arizona, where he gathered an ethnological collection among the Papago and Pima villages, a type series of which was secured to supplement our rapidly growing southwestern collections. Practically the only remaining gap in our series for the Indians of Alaska and British Columbia was filled by the purchase of the Emmons Tsimshian Collection. Mrs. Edward H. Harriman presented a buffalo skin tipi collected several years ago by Mr. Edwin W. Deming. Through the joint efforts of Assistant Curator Herbert J. Spinden and Mr. Juan Reyna, parts of several new and heretofore unknown Mexican codices were obtained. A full enumeration of the various gifts and purchases will be given under another head, but it remains to note that extensive field collections were returned from the Cree, Menomini, Crow, Hidatsa, Rio Grande Pueblos, Kiowa Apache and Pima Indian tribes.

In accordance with the general plan for the arrangement of the anthropological collections, the west wing, first floor, was apportioned among three great North American culture areas: the Eastern Woodlands, the Plains and the Southwest. The installation of these units is proceeding as rapidly as cases are provided, and in such a manner as to keep the halls continually open to visitors. Early in the year two new halls were opened: one for the South Sea Islands and one for the Philippines. Although the arrangement in these halls is not yet complete, many of the main characteristics of South Sea and Malay cultures are now on exhibition. During the latter part of the year five Tahitian natives visited the city and posed for casts and other details from which three life-sized groups are now under construction.

Many years ago the Museum secured some important archæological collections from Europe, representing both the paleolithic and the neolithic period. During the year these collections were reclassified by Professor George Grant MacCurdy of Yale University, and a preliminary exhibit opened

to visitors in the tower room adjoining the North American Archæological Hall. This should be considered as the beginning of a prehistorical exhibit of the evidences of man's antiquity in the Old World. In the same hall, Mr. Ernest Volk has made the final arrangement of his exhibit of the evidences of man's antiquity in the Delaware Valley. As the latter represents the results of almost thirty years' continuous research under the direction of Professor F. W. Putnam, it is an acquisition of the first importance.

In the North Pacific Coast Hall were installed four large mural panels painted by Mr. Will S. Taylor, representing life scenes among the Chilkat, Bella Coola, Tsimshian and Haida Indians. It is intended that these paintings shall serve as substitutes for habitat groups. Two more panels are practically ready for exhibition, completing the series representing material life. It is planned to place on the other side of the hall a similar series representing religious practices and conceptions.

The Museum possesses an excellent series of archæological specimens from Peru and other parts of western South America. These occupy one side of the South American Hall where they have been newly arranged to represent the cultural characteristics of the various geographical localities. In the Mexican and Central American Hall several minor changes have been made to give the respective culture areas relatively full representation.

During the year the organization of the ethnological storage collections was practically completed, so that now any specimen in our collections is available for study or other purposes upon a moment's notice. Also work upon the card catalogue of the department has been advanced so that it is now complete for the Eskimoan, North Pacific Coast, Eastern Woodlands, Plains and Southwestern areas. This gives us for the first time a complete definite locality catalogue.

The field investigations of the department have been directed in the main toward the solution of one general problem: the historical relations of cultures up and down the central portions of the United States and Canada. A few years ago this began with simultaneous visits to the Cree

Indians around Hudson's Bay, the Crow and other tribes of the Plains and the nomadic and more sedentary tribes of the Southwest. Within this geographical belt there are survivors of many prehistoric groups, speaking some twenty languages and representing several somatic types. This year all our field staff has concentrated on two main points, the systems of social groupings, or societies, and ritualistic forms. The first derives its importance from the choice of it by some sociological students as an example of a certain inner determined evolution, or scheme, which the assumed unfolding of social life was ordained to follow. Now, our studies have made clear that no such unfolding has taken place in this region, but that we have a rather highly developed system of coördinated societies in a few central tribes with various remnants among the marginal groups, seemingly best explained by assuming that some one or two of the central groups constructed or invented these schemes of organizations and that others copied from them to a greater or less degree. Thus it is probable that the results of this phase of our year's work will be of some general theoretical importance aside from the accumulation of new knowledge covering the tribes in question.

The study of ritualistic forms has also a theoretical interest, because we find a strong tendency for each group of Indians to conserve one or more individual types of ritualistic ceremonies. This is now apparent since we have fairly complete data on all the many rituals still known among a few tribes. It remains to work out a comparative view of these types. Waiving this theoretical problem we have resulting collections of systematically recorded data which in a few years will be unavailable except in our field notes. Perhaps few realize that in North America the existing Indian is no longer living a different life from his white neighbors and that information as to his former life is to be had only from a few old people who will pass into the beyond within a few years.

During the year the Chipewyan, Cree and Sarcee of Canada were visited; also the Menomini, Crow, Hidatsa, Mandan, Santee Dakota, and Teton Dakota of the northern Plains; and the Kiowa Apache and Jicarilla Apache of the Southwest: all

in connection with the above coördinated investigation. In addition, some other special investigations were undertaken. Mr. Max Schrabisch is exploring the out-of-the-way corners of New Jersey for rock shelters used by prehistoric man. His work has proven them to be rather numerous and to have in them traces of different culture levels, a feature so far rare in North America.

Reports from Mr. V. Stefánsson received during this year have been of more than usual interest. Aside from the novel discovery of an apparent strain of European blood among far outlying groups of Eskimo, his later discoveries of an archaeological nature deserve notice. He found traces of pottery in old village sites, an art so far attributed only to the Alaskan Eskimo. Further he reports that the type of culture indicated by other artifacts is similar to the ancient type in Greenland and Southampton Island, suggesting a prehistoric similarity throughout the entire stretch of Eskimo tribes. As the expedition is still out, further details cannot be given.

Detailed reports of the various museum expeditions mentioned above are being prepared for publication in the near future.

ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, Curator

DEPARTMENT OF ANATOMY AND PHYSIOLOGY.—As in past years, the department has been doing work to its full capacity in the preparation of skeletons requisitioned by other departments. For this purpose the work has been detailed in two divisions: one has been concerned with the osteological preparations of the large mammals and birds, while the other has been occupied with the cleaning and mounting of all the small animals. The preparation of 161 skeletons and 1,060 large and small skulls has been completed during the year. Mr. Elwyn has used with much success in certain instances a method of maceration in an alkaline soap solution. This has proved unusually satisfactory in the cleaning of skeletons of mammals and large reptiles, but is not adapted to the preparation of fish and amphibia, in which cases the pepsin digestion is much superior. The liquid



DEPARTMENT OF PUBLIC HEALTH

HOW DISEASES ARE SPREAD

One of the Charts from the Public Health Exhibit which is circulated in the Public Schools

The germs of disease are spread from the sick person or the "carrier" to the next victim by various means. For example, these girls are doing sums with one pencil, which each in turn without thinking puts into her mouth, so that any disease which either may have will be likely to spread to the other through the transfer of the germs from the mouth

soap method also gives excellent results with specimens which have previously been preserved in alcohol.

The equipment in the preparation room remains very inadequate. Quarters having much larger space, better light and adapted to the installation of a necessary degreasing apparatus are the most pressing needs of the department.

An exhibition space in the west corridor of the second floor has been allotted to the department, where it is hoped in the near future to install exhibits illustrating such functions as the mechanism of respiration, the structure and functions of the kidneys and the action of the heart.

The department has received in the flesh 101 specimens from the Central Park Menagerie, 179 from the New York Zoölogical Society, 18 from the New York Aquarium and 39 from other sources, making a total of 337 animals.

PUBLIC HEALTH

CHARLES-EDWARD AMORY WINSLOW, Curator

DEPARTMENT OF PUBLIC HEALTH.—A joint exhibition of models, charts and pictures, illustrating the problems connected with the pollution of New York Harbor, and practical methods for the disposal of city wastes, was made during the months of May and June by the Department of Public Health and the Metropolitan Sewerage Commission. At the opening meeting on May 15, addresses were made by President Osborn, Dr. G. A. Soper of the Commission, Dock Commissioner Tomkins, Dr. H. W. Wiley of the United States Bureau of Chemistry, and the Curator. On the closing day, Friday, June 16, special lectures were given to 1,200 pupils from the city high schools, who made a visit to the exhibition.

The principal work of the department has since been devoted to the preparation, under the immediate direction of Mr. J. H. O'Neill, of a series of models, relief maps, charts and specimens, to illustrate the natural history of drinking water. This exhibit, when completed, will show the original source of water, in the rainfall with its local variations, the methods used in getting water supplies by damming streams

or driving wells, the varying physical qualities of water as to color and turbidity, the micro-organisms which grow in reservoirs and cause unpleasant tastes and odors, the sources of pollution of water supplies, with relief maps illustrating certain historic epidemics, the methods in use for purifying water on a municipal scale and in the home, and the gains to human life and health which have been attained in cities of New York State by the substitution of pure water supplies for polluted ones. The most difficult part of the work, the preparation of the models and relief maps, is well advanced, and it is hoped that the exhibit may be installed during the spring.

A series of models of bacteria is also under preparation, which will illustrate recent discoveries in regard to the structure of these minute organisms, and will include all the more important bacterial enemies of man, such as the tubercle bacillus, the typhoid bacillus, the plague bacillus and the spirillum of cholera, with killed and preserved colonies showing their actual growth.

The department has prepared for the Department of Public Education an album of large photographs illustrating the ways in which communicable disease spreads, and how it can be avoided, for use by classes in the public schools. It is hoped that this album may help in some degree in the vital and difficult task of popularizing knowledge as to the laws of individual health.

The Museum of Bacteria which we are establishing is the only one of its kind in the United States. The collection of bacterial cultures has grown very rapidly during the year. We have now under cultivation 479 cultures, representing 322 different types, and forming what is probably the most complete collection of bacteria in existence, with the single exception of the Kral collection at Vienna; 577 cultures have been sent out from the laboratory to 53 different institutions in the United States and Canada, representing an earnest of a unique and important service to American bacteriological teaching and research. The resources of the department laboratory are severely taxed, however. It has been so far impossible to begin a systematic study of our cultures, for which the collection offers such unusual facilities, and it is hoped that further



DEPARTMENT OF WOODS AND FORESTRY

WAX REPRODUCTION OF CATALPA FLOWERS AND LEAVES

Many of the models in the Forestry Hall are so accurately copied from life that observers, sometimes even botanists, judge them natural instead of artificial and send questions to the Museum concerning methods of preservation

assistance in the laboratory may be available during the ensuing year.

The Curator spent much of the summer in the study of an epidemic of some 1,500 cases of a peculiar septic throat disease which occurred in eastern Massachusetts during the spring. The outbreak ultimately proved to be due to an infected milk supply and presented features of somewhat special interest. The account of it will shortly be published in an appropriate journal as a contribution from the Department of Public Health. Another investigation, almost completed, is an exhaustive study by Mr. I. J. Kligler of the bacteriology of the dust of streets and buildings.

WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, Curator

DEPARTMENT OF WOODS AND FORESTRY.—The historical value of the Jesup Collection of Woods is emphasized by the continued destruction of American forests. Work has continued on the systematic arrangement of this collection to bring out the natural classification of the trees in families and genera, and to indicate geographical distribution and economic value. Progress has been made in the descriptive labeling and in the construction of fruit and flower models, such as mountain ash (*Sorbus americana* var. *decora* Sarg.), catalpa (*Catalpa catalpa* Karst.), hackberry (*Celtis occidentalis* L.), virgilia (*Cladrastis lutea* Koch), hawthorn (*Crataegus cordata* Ait.), and holly (*Ilex opaca* Ait.), white pine (*Pinus strobus* L.), lodge pole pine (*Pinus contorta* var. *murrayana* Engelm.), Douglas spruce (*Pseudotsuga mucronata* Sudw.), scrub pine (*Pinus virginiana* Mill.), and western yellow pine (*Pinus ponderosa* Laws.). Acknowledgments must be made to the New York Botanical Garden for courtesy in supplying conifer sprays for preservation, to the Department of Parks for catalpa, and to Mr. Webster Norris of Matteawan for virgilia sprays for reproduction. Various drawings for the collection are being made by Mrs. Sargent.

The Big Tree sections, previously in the Darwin Hall, have been given a place with the Jesup Collection; this is an

important preliminary step in the development of the Forestry Hall. Plans are matured for the addition of various exhibits in the alcoves of the hall to show practical facts connected with forest conservation versus destruction as affecting water supply and the country's agriculture and industries.

The department has extended information and identification of specimens to inquirers of many sorts, such as teachers, architects, industrial engineers and inspectors of creosoting plants. A collector has been sent to the field in New York State to get data, photographs and utensils for use in the construction of a small group illustrative of primitive methods in the maple sugar industry. Several offers of valuable small collections of foreign woods, such as that by Mr. John L. Phillips of New York City of a collection of Santo Domingo woods with flowers and fruits, are awaiting possible space arrangements for the same.

The Leaflet on Forestry, based on the Jesup Collection, came from press early in the year. That there exists a settled interest in forestry among the people in America, in pulp industry questions at present of international importance, and in forest preservation in New York with the consequent increase in water supply, is proved by the rapid sale of this leaflet, which aims to set forth in a simple way the principles underlying the necessity for the forestry movement.

In addition to departmental work, the editorship of the *American Museum Journal* and *Guide Leaflets* has been carried.

THE LIBRARY

RALPH W. TOWER, Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS.—The value and use of the Library have been greatly augmented during the year by many important gifts of books and by many additions to the equipment. Especially noteworthy has been the presentation of the Bickmore library by Professor A. S. Bickmore and his wife, Charlotte B. Bickmore. This library is a remarkably fine collection of selected works in anthropology, travel and natural history. It is very fitting that the Museum should come into possession of this excellent collection, since

Professor Bickmore was the founder of the Library and ever enthusiastic concerning its welfare. Through this gift many desirable books relating to early travel and Indian affairs have been received, which during the last few years have become very rare and more and more difficult to obtain. The entire accession will amount to some four thousand volumes.

During the year it has been possible for the Library, through the generosity and interest of Mr. Anson W. Hard, to procure some of the rare and classic works in natural history which have been so long needed in our collection. Among these are many interesting books, as *Icones Insectorum Rariorum*, by C. Clerck, a work that was privately printed in 1759-1764 as presentation copies only and has become extremely rare and difficult to obtain; a set of *Comptes Rendus Hebdomadaires des séances et mémoires de la Société de Biologie*, from the beginning in 1849 to date; a copy of Hahn & Koch, *Die Arachniden* in sixteen volumes, 1831-1848, long out of print and important; and a copy of Herrich-Schäffer, *Systematische Bearbeitung der Schmetterlinge von Europa* 1843-1861, a set that is only infrequently offered for sale. The acknowledgments of the Library, as well as of those who now find it possible to consult these classic works, are hereby extended to the donor.

Besides the gifts heretofore mentioned there are many others of importance from both institutions and individuals, to whom the Library is greatly indebted. Mr. Cleveland H. Dodge has continued to furnish the publications of The Carnegie Institution, and has presented many volumes relating to ichthyology.

A new room corresponding in size to the present large stack-room has been completed and is now awaiting the installation of a modern two-story steel stack. This addition to the equipment will be one of great importance both in serving the convenience of our patrons and in relieving the present overcrowded condition of the shelves. As soon as the new stack can be occupied it is proposed to remove the anthropological works from their present quarters and shelve them in alcoves adjoining the subjects of travel and history with which they are so intimately related. With the installation of a more competent lighting system this arrangement will give a

convenient, well lighted and serviceable library and reading room for those wishing to consult books on these subjects.

In order to make more serviceable the large number of scientific periodicals which are regularly received by the library, plans have been adopted for installing cases along the side walls of the present reading room. Upon the top shelf of each case will be placed the new accessions where they can be consulted before taking their places on the stacks. The lower shelves will contain the encyclopædias, lexicons, dictionaries and the more important books of reference. Upon the remaining shelves will be placed the current numbers of the scientific periodicals as soon as they are received. It is well known that frequently a most important contribution remains for a long time unnoticed because of the inaccessibility of the periodical in which it happens to appear, and it is hoped therefore that this arrangement will afford all those interested in natural history a means of keeping pace with the more important writings.

The equipment of a general reading room with popular and non-technical books on natural history in a place readily accessible to the public has so far progressed that a small room on the second floor is being furnished with suitable tables and cases and will soon be open. It is hoped that as a result of this experiment a more intelligent use of the Museum exhibits and a more extensive use of its Library will ensue.

The Department of Maps and Charts has been merged with that of the Library, and the collection, at present stored, will later be installed in the room now occupied by the anthropological books. The method of shelving, always a perplexing problem, is under consideration.

PUBLICATIONS

J. A. ALLEN, Editor

The current publications of The American Museum of Natural History consist of the *Annual Report*, the *Bulletin*, the *Memoirs*, the *Anthropological Papers* and the *American Museum Journal*.

The *Bulletin* is a strictly scientific publication in which are published the shorter articles embodying the results of the research work of the various departments of the Museum. The papers composing it are less voluminous and of more general interest than those which appear in the *Memoirs*. The *Bulletin* was founded in 1881, and the number of volumes which have been issued is thirty.

The *Memoirs*, like the *Bulletin*, are strictly scientific, but are devoted to special articles requiring more exhaustive treatment. They have been published at irregular intervals since 1893. Ten complete volumes and parts of four others have been issued.

The *Anthropological Papers* are similar in character to the *Bulletin*, but are devoted exclusively to the results of field work and other research conducted by the anthropological staff of the Museum. The publication of these papers was commenced in 1907, eight volumes having been issued up to the present time.

The *American Museum Journal* is a popular record of the progress of the Museum, and was first published in 1900.

The publications of the present year include Volumes XXIX and XXX of the *Bulletin*, Volume VII, Part I, Volume VIII, and Volume IX, Part I, of the *Anthropological Papers*, and Volume XI of the *Journal*.

The total amount expended on publications for the year was \$17,182.99.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOOLOGY

Alexander Petrunkevitch. "A Synoptic Index-Catalogue of Spiders of North, Central and South America with all adjacent Islands, Greenland, Bermuda, West Indies, Terra del Fuego, Galapagos, etc." *Bull.* XXIX, pp. 1-791.

Aaron L. Treadwell. "Polychætous Annelids from the Dry Tortugas, Florida." *Bull.* XXX, pp. 1-12, 29 text figs.

William Morton Wheeler. "Additions to the Ant-fauna of Jamaica." *Bull.* XXX, pp. 21-29.

H. F. Wickham. "Fossil Coleoptera from Florissant, Colorado, with Descriptions of several New Species." *Bull.* XXX, pp. 53-69.

- T. D. A. Cockerell. "Fossil Insects from Florissant, Colorado." *Bull. XXX*, pp. 71-82, pl. iii, 3 text figs.
- Charles W. Leng. "The Species of *Brachyacantha* of North and South America." *Bull. XXX*, pp. 279-333, 86 text figs.
- William Beutenmüller. "The North American Species of *Dryophanta* and their Galls." *Bull. XXX*, pp. 343-369, pls. xii-xvii.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

- Charles H. Gilbert. "Notes on Lantern Fishes from Southern Seas, collected by J. T. Nichols in 1906." *Bull. XXX*, pp. 13-19, 2 text figs.
- John Treadwell Nichols. "Notes on Teleostean Fishes from the Eastern United States." *Bull. XXX*, pp. 275-278, pl. xi, 1 text fig.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- Roy C. Andrews. "A New Porpoise from Japan." *Bull. XXX*, pp. 31-50, pls. i-ii, 23 text figs.
- Theodore Roosevelt. "Revealing and Concealing Coloration in Birds and Mammals." *Bull. XXX*, pp. 119-231.
- Roy C. Andrews. "Description of an apparently new Porpoise of the Genus *Tursiops*, with remarks upon a Skull of *Tursiops gillii* Dall." *Bull. XXX*, pp. 233-237, pl. x.
- J. A. Allen. "Mammals from Venezuela collected by Mr. M. A. Carriker, Jr., 1909-1911." *Bull. XXX*, pp. 239-273.
- J. A. Allen. "Mammals collected in the Dutch East Indies by Mr. Roy C. Andrews on the cruise of the 'Albatross' in 1909." *Bull. XXX*, pp. 335-339.
- D. G. Elliot. "The Generic Name *Cercopithecus*." *Bull. XXX*, pp. 341, 342.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- W. J. Sinclair and Walter Granger. "Eocene and Oligocene of the Wind River and Bighorn Basins." *Bull. XXX*, pp. 83-117, pls. iv-ix, 3 maps, 1 text fig.

DEPARTMENT OF ANTHROPOLOGY

- Clark Wissler. "The Social Life of the Blackfoot Indians." *Anthrop. Papers*, VII, pp. 1-64, 15 text figs.
- Pliny Earle Goddard. "Jicarilla Apache Texts." *Anthrop. Papers*, VIII, pp. 1-272.
- Alanson Skinner. "Notes on the Eastern Cree and Northern Saulteaux." *Anthrop. Papers*, IX, pp. 1-177, pls. i-ii, 56 text figs.



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY
A PORTION OF THE BULLFROG GROUP



III. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

The Museum is dependent in large measure on the contributions of its friends for the acquisition of new collections, for carrying on explorations, for publishing the scientific results of these explorations and for the extension of its educational system. Receipts from membership are applied directly to these purposes. Thus membership in the Museum affords an opportunity, for all those who are interested in its growth and development, to render practical assistance. There is a mistaken idea that only the very wealthy may become Members, but an examination of the classes of membership will show that even those of moderate means may share in this work.

CLASSES OF MEMBERSHIP

Annual Members.....	\$10	Fellows	\$500
Sustaining Members (annually)..	25	Patrons	1,000
Life Members	100	Benefactors	50,000

Members not only enjoy the satisfaction of directly contributing to the growth of the Museum's collections, but also receive many privileges which cannot be granted readily to others. Full information regarding membership will be furnished by the Secretary on request.

For the free use of Members and their guests, the Trustees have provided a room on the third floor, near the elevator. It has been furnished with comfortable lounging chairs, and reading and correspondence tables. The *Museum Journal*, the *Guide Leaflets* and other Museum publications, including books by members of the scientific staff, are on file. The Museum collection of the portraits of its Founders and Benefactors will be found here also. Members, especially when accompanied by their children, are invited to go first to the Members' Room, where a matron will be found on duty. A branch telephone connects with all parts of the building, and, by calling the Secretary's office, the Members may summon the Instructor, who will conduct them through the Museum.

We are especially grateful to those Members who, through suggesting the names of their friends as candidates, have been instrumental in increasing the membership. Such assistance is greatly appreciated.

A vigorous campaign for increasing the membership has resulted in the enrolment of 347 new names on our lists; but as the loss through death and resignation has been 151, the net gain is only 196.

On December 31, 1911, the total membership was 2,652, divided into classes as follows:

Benefactors.....	2	Honorary Fellows.....	2
Patrons.....	112	Life Members.....	517
Fellows.....	39	Sustaining Members....	37
Annual Members.....1,943			

NEW MEMBERS

The following persons were elected Benefactors:

MRS. MORRIS K. JESUP J. PIERPONT MORGAN

The following persons were elected Patrons:

PROF. ALBERT S. BICKMORE	DR. WALTER B. JAMES
MRS. ALBERT S. BICKMORE	MRS. ISABELLE FIELD JUDSON*
ANDREW CARNEGIE	CHARLES H. SENFF†
MRS. E. H. HARRIMAN	CHARLES S. SHEPARD‡

The following persons were elected Fellows:

JOHN A. GROSSBECK D. C. STAPLETON

The following persons were elected Life Members:

F. D. ALLER	FREDK. F. BREWSTER
SAM SLOAN AUCHINCLOSS	WILLIAM GOULD BROKAW
BERNARD M. BARUCH	COMMANDER GUY H.
CHARLES L. BERNHEIMER	BURRAGE, U.S.N.
MRS. CHARLES L. BERNHEIMER	GEORGE B. CASE
GEO. BLEISTEIN	F. AMBROSE CLARK
ANTHONY N. BRADY	MRS. GEORGE C. CLAUSEN

* Succeeded to the patronship of Cyrus W. Field.

† Deceased.

‡ Succeeded to the patronship of Edward M. Shepard.

CHESTER L. COLTON	JOSEPH J. NUNAN
HAROLD J. COOK	ALBERT OPERTI
DANIEL W. CORY	MRS. H. FAIRFIELD OSBORN
CAPTAIN W. H. COTTINGHAM	WILLIAM F. PATTERSON
W. BAYARD CUTTING	MISS FRANCES VON R. PHELPS
DR. CARLOS DE LA TORRE	MRS. MARIAN VON R. PHELPS
CHARLES DE RHAM	PHELPS VON R. PHELPS
THEODORE DEWITT	JOHN J. PIERREPONT
MRS. CLEVELAND H. DODGE	GIFFORD PINCHOT, 2D
CHARLES J. EDER	MISS ROSAMOND PINCHOT
DR. EVAN M. EVANS	CLARENCE B. RIKER
VARICK FRISSELL	JOHN ROGER
DR. GEORGE H. GIRTY	ROBERT ROGERS
S. A. GOLDSCHMIDT	PHILIP A. ROLLINS
MISS D. GREER	MRS. JAMES ROOSEVELT
CARL HAGENBECK	MRS. JACOB H. SCHIFF
MRS. CHARLES W. HARKNESS	EDWARD W. SHELDON
MRS. JAMES J. HIGGINSON	GEORGE P. SHIRAS
FRANCIS R. HITCHCOCK	C. RITCHIE SIMPKINS
MISS HELEN HURD	MRS. CHARLES STEWART SMITH
JOHN V. IRWIN	HENRY ATTERBURY SMITH
MRS. D. WILLIS JAMES	PAUL CECIL SPOFFORD
MICHAEL JENKINS	MISS FRANCES E. SPRAGUE
GEORGE GORDON KING	DR. JAMES H. STEBBINS, JR.
ARNOLD KNAPP	ROBERT E. TOD
MRS. DANIEL S. LAMONT	FREDERIC C. WALCOTT
HENRY LANG	CAROLINE CONSTANTIA WARD
A. M. POST MITCHELL	MISS ALICE DELANO WEEKES
WILLIAM H. MOORE	MRS. H. P. WHITNEY
NEWBOLD MORRIS	ELMORE A. WILLETS
WALTER WINANS	

The following persons have become Sustaining Members:

NELSON W. GREENHUT	JACOB W. MACK
SUSAN D. GRIFFITH	MRS. ELISABETH C. T. MILLER
HOWARD HUNTINGTON	DR. SAMUEL MURLAND
SAMUEL KRAUS	ALFRED NATHAN
MRS. GEORGE W. PERKINS	

DECEASED TRUSTEES AND MEMBERS

It is with a profound sense of our loss that we announce
the death of the following Trustees and
Members during the year 1911:

Trustees

GUSTAV E. KISSEL

J. HAMPDEN ROBB

Patrons

CHARLES H. SENFF

EDWARD M. SHEPARD

Fellows

CHARLES H. SENFF

MISS CAROLA WOERISHOFFER

Life Members

BERNARD G. AMEND

MRS. E. HERRMAN

MISS E. AYMAR

JAMES J. HIGGINSON

DAVID BANKS

FREDERIC DELANO HITCH

MISS CORA F. BARNES

MRS. FLORENCE HOWLAND

JOHN BIGELOW

GEORGE T. HOWLAND, M.D.

CORNELIUS N. BLISS

JOHN J. MCCOOK

MISS ELLEN H. COTHEAL

JOHN B. McDONALD

WILLIAM DEMUTH

MISS P. C. SWORDS

In appreciation of Mr. Robb's interest in the Museum, the
Trustees adopted the following Minute at the regular Annual
Meeting of the Board, February 13, 1911:

This Board records with sorrow its tribute to

JAMES HAMPDEN ROBB

for twenty-five years one of its number.

In the decease of Mr. Robb, on January 21,
1911, the Museum has lost another of its old and
warm friends. In our relations with the municipal
authorities, and especially with the Park
Department, Mr. Robb, from his political experience,
was for many years a sound and valuable
adviser. He always took great pleasure and
pride in his connection with the institution, and
his presence at our councils will be greatly missed
by many of his friends.

Mr. Robb was elected a Trustee at the Annual Meeting of February 8, 1886. He served continuously on the Executive Committee after February 12, 1894, and was Permanent Chairman of the Committee during the years 1901-1907 inclusive. He also served continuously as Secretary of the Board from February 8, 1906, until his decease. He was a member of the Jesup Memorial Committee, of the Committee on Constitutional Condition of the City Maintenance Appropriation, of the Committee on the Revision of the Constitution and By-Laws, and served the Museum in other ways through his constant expression of personal interest in its welfare.

The following is the Minute which was adopted at the regular Quarterly Meeting of the Board, May 8, 1911, in recognition of Mr. Kissel's interest in the Museum:

Through the death of Mr. Gustav E. Kissel, on April 10, 1911, The American Museum of Natural History has lost another of its warm friends and supporters.

Mr. Kissel was elected a Trustee on February 12, 1894, and thereafter was deeply interested in the development of the institution. He served on the Executive Committee from 1895 to 1899 and continuously on the Auditing Committee from 1897 to the time of his death. In the year 1901, at the special request of President Jesup, he prepared a valuable report on the methods of the internal financial administration of the Museum, in coöperation with Mr. Percy R. Pyne. Many of the recommendations of this report subsequently were embodied in our financial system. From time to time Mr. Kissel served the Museum in other ways and contributed to the advance of a number of its scientific plans.

The Trustees of the American Museum, at this time, desire to make permanent record of their sense of loss and to extend to the members of Mr. Kissel's family most sincere sympathy in their bereavement.

IV.—FINANCES, MAINTENANCE, ENDOWMENT

Early in the year a special committee was appointed by the Board to examine the method of handling the finances of the Museum and to recommend such changes as seemed desirable. Following the recommendation of this Committee, the Board appointed the United States Trust Company of New York Assistant Treasurer of the Museum, and made it the depository for all moneys received by the Museum, with the exception of the funds of the Permanent Endowment, which were to be continued with J. P. Morgan and Company, under the name of the Endowment and Investment Account. The office of Bursar was created, and Mr. Frederick H. Smyth, who had been in the general office for twenty years, was promoted to this position. The Bursar is the representative of the Treasurer at the Museum and the head of the Treasurer's office there.

A system of "Bill Sheets" was introduced which provided for the listing of all bills before payment on a sheet which is approved in writing by the Director and one of the following officers: President, Vice-President or Chairman of the Executive Committee. These sheets duly approved with bills attached are submitted to the Assistant Treasurer, who draws a check for the full amount of the bill sheet to the order of the Bursar, who deposits the same in his Bursar's Account and draws against it in payment of the individual bills. Once a month the Assistant Treasurer examines the books of the Museum, including the Bursar's Account, to see that disbursements have been properly made.

The financial transactions of the Museum have been carried as usual in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 79 to 93 inclusive. Semi-annually all books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

CITY MAINTENANCE ACCOUNT. — In this account are received and disbursed only those moneys which are appro-

priated by the City for maintenance of the Museum. This appropriation in 1911 was \$189,757, an increase of \$4,000 over the appropriation of the preceding year. The major part of this increase was used in providing a general increase of wages for all classes of employees exclusive of the members of the scientific staff. The actual cost of maintenance of the Museum, even under the strictest interpretation of the contract with the City, is greatly in excess of the City's appropriation, and, as has been the case for many years, the Trustees have had to meet some of the cost of maintenance out of their own funds. They have applied \$64,131.10 to this purpose in 1911. This is exclusive of many items which legally could be charged to the City, but which the Trustees feel morally should not be classed as maintenance. For example, the entire corps of preparators is paid exclusively out of Museum rather than City funds; also the time of Curators devoted to research is sustained wholly by Museum funds.

TRUSTEES GENERAL ACCOUNT.—It is upon the receipts of the General Account that the Trustees chiefly draw for the purchase of specimens, the support of field parties and the carrying on of research and for publications, in short, for the scientific development of the Museum. It is gratifying to report that the receipts in this account have been larger than ever before, reaching the total of \$177,366.98, a sum nearly \$15,000 greater than last year. This increase is largely due to the generous personal contributions of the Trustees. The principal items of income are as follows:

Interest on General Endowment Fund.	\$56,064.63
Interest on Morris K. Jesup Fund.....	50,986.00
Life Members.....	4,900.00
Annual and Sustaining Members.....	19,100.00
Special Contributions of Trustees.....	29,600.00

TRUSTEES SPECIAL FUNDS ACCOUNT.—The Special Funds Account, as its name implies, is made up of contributions which are to be expended only for specific purposes. In reality each fund is treated as a separate account: thus the Treasurer is prepared at any time to disburse all or any part of a special

fund. As these contributions are almost always for the purchase of collections or the support of field parties, the moneys of this account form an important item of income in the development of the scientific work of the Museum. These contributions in 1911 have amounted to the splendid total of \$54,700 78, a sum which has enabled the Museum to become the possessor of several rare collections and to undertake explorations which otherwise would have been impossible.

TRUSTEES PERMANENT ENDOWMENT ACCOUNT.—It is a source of regret that we cannot report a greater increase in the funds of the Permanent Endowment. One substantial contribution has been received, namely, \$25,070.37, from the estate of Charles E. Tilford, in settlement of the terms of his bequest. The total endowment at the close of 1911 was \$2,367,716.28. In the last analysis the progressive and systematic development of the Museum, both in its scientific and educational work, is directly dependent on the Permanent Endowment. It will be seen, therefore, that the increase of the endowment has become imperative.

Respectfully submitted,

HENRY FAIRFIELD OSBORN

February 5, 1912

President

FINANCIAL STATEMENT

1911

*PERMANENT ENDOWMENT**

Morris K. Jesup Fund	\$1,146,600 00	
General Endowment Fund.....	1,140,265 90	
John B. Trevor Fund.	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
Jonathan Thorne Memorial Fund.....	26,884 10	
	<hr/>	\$2,364,750 00

Uninvested Cash :

Morris K. Jesup Fund.....	241 19
General Endowment Fund.....	2,722 88
Jonathan Thorne Memorial Fund.....	2 21
	<hr/>
	<u>\$2,367,716 28</u>

* The income of the Permanent Endowment is the chief source of income of the General Account.

ENDOWMENT AND INVESTMENT ACCOUNT

RECEIPTS

1911

GENERAL ENDOWMENT FUND :

Estate of Charles E. Tilford.....	\$25,070 37
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SPECIAL FUNDS ACCOUNT :

Transferred from Investment Fund.....	8,954 30
---------------------------------------	----------

GENERAL ACCOUNT :

Transfer Patronship.....	\$1,000 00
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Reimbursement from Interest on General Endowment Fund of accrued interest on bonds at time of purchase.....	110 58	1,110 58
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Redemption of Bond.....	1,050 00	\$36,185 25
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MORRIS K. JESUP FUND :

SPECIAL FUNDS ACCOUNT :

Transferred from Investment Fund.....	241 19
---------------------------------------	--------

JONATHAN THORNE MEMORIAL FUND :

SPECIAL FUNDS ACCOUNT :

Transferred from Investment Fund.....	820 00
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Reimbursement from Interest on Jonathan Thorne Memorial Fund of interest on bonds at time of purchase.....	2 21	822 21
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INTEREST ON CREDIT BALANCES :

Earnings to December 31, 1911.....	175 58
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	\$37,424 23
--	-------------

Examined	{ ANSON W. HARD }	Auditing
and Approved	{ PERCY R. PYNE }	Committee

ENDOWMENT AND INVESTMENT ACCOUNT

DISBURSEMENTS

1911

GENERAL ENDOWMENT FUND :

Purchase of Bonds and Stocks.....	\$33,462 37
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JONATHAN THORNE MEMORIAL FUND :

Purchase of Bonds.....	820 00
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INTEREST ON CREDIT BALANCES :

Transferred to Interest on Credit Balances, General Account.....	175 58
--	--------

CASH ON HAND AWAITING INVESTMENT	2,966 28
--	----------

	<u>\$37,424 23</u>
--	--------------------

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1911*

CITY MAINTENANCE ACCOUNT

RECEIPTS

1911

Capital Fund, cash on hand January 1, 1911.....	\$11,187 37		
Department of Parks:			
Account of 1910:			
Telephone Service.....	\$93 52		
General Supplies.....	237 15		
Materials for Repairs and Replacements by Departmental Labor.....	441 83		
Repairs and Replacements by Contract or Open Order....	216 00		
Maintenance of Automobile, including equipment, care and storage.....	3 05		
Purchase of Furniture and Fittings.....	228 30		
Fuel.....	2,592 78	3,812 63	\$15,000 00
Department of Parks:			
Appropriation for 1911:			
Salaries and Wages.....	163,152 53		
Payrolls awaiting reimbursement.....	847 47	164,000 00	
General Supplies.....		9,419 00	
Telephone Service.....	515 71		
Bills awaiting reimbursement.....	39 29	555 00	
Materials for Repairs and Replacements by Departmental Labor.....	3,500 00		
Bills awaiting reimbursement.....	1,225 00	4,725 00	
Repairs and Replacements by Contract or Open Order.....	479 14		
Bills awaiting reimbursement.....	20 86	500 00	
Maintenance of Automobile, including equipment, care and storage.....		450 00	
Purchase of Furniture and Fittings.....		1,150 00	
Fuel.....	7,069 88		
Bills awaiting reimbursement.....	430 12	7,500 00	
Contingencies.....	1,276 95		
Bills awaiting reimbursement.....	181 05	1,458 00	
Total net receipts for the maintenance of all departments....			189,757 00
Interest on Credit Balances.....			159 98
Loans.....			4,500 00
			<u>\$209,416 98</u>

Examined { ANSON W. HARD } Auditing
and Approved { PERCY R. PYNE } Committee

CITY MAINTENANCE ACCOUNT*

DISBURSEMENTS

1911

Geology and Invertebrate Palæontology.....	\$4,140 25
Mineralogy	2,078 89
Mammalogy and Ornithology.....	7,722 71
Vertebrate Palæontology.....	5,539 47
Anthropology.....	11,459 47
Invertebrate Zoölogy.....	8,363 90
Ichthyology and Herpetology	4,581 46
Public Health.....	2,892 07
Woods and Forestry.....	1,369 14
Library	7,767 79
Public Education.....	3,930 81
Preparation and Exhibition.....	1,919 97
Heating and Lighting.	22,912 33
Repairs and Installation.....	21,548 23
General Supplies and Expenses.....	8,884 95
Administration	74,645 56

**Total net disbursements for the maintenance
of all departments.....**

\$189,757 00

Interest on Credit Balances transferred to General
Account.....

159 98

Loans.....

4,500 00

Capital Fund :

Cash on hand December 31, 1911.....

12,256 21

Bills awaiting reimbursement from Department

of Parks, December 31, 1911.....

2,743 79

15,000 00

\$209,416 98

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, December 31, 1911

*The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in *maintenance* for 1911, amounting to \$64,131.10, has been met from the Trustees General Fund.

GENERAL ACCOUNT

RECEIPTS

1911

Cash on hand January 1, 1911.....	\$13,354 11
Interest on General Endowment Fund.....	56,064 63
Interest on Morris K. Jesup Fund.....	50,986 00
Interest on Credit Balances.....	1,004 34
Life Members.....	4,900 00
Annual Members.....	18,200 00
Sustaining Members.....	900 00
Sales and Exchanges.....	1,155 25
Sale of Publications.....	702 65

Contributions of Trustees for General Receipts :

George S. Bowdoin.....	\$3,000 00	
Joseph H. Choate.....	1,000 00	
Thomas De Witt Cuyler.....	2,500 00	
Cleveland H. Dodge.....	1,500 00	
James Douglas.....	1,000 00	
Anson W. Hard.....	1,000 00	
Adrian Iselin, Jr.....	1,000 00	
Walter B. James.....	1,000 00	
Charles Lanier.....	1,000 00	
Ogden Mills.....	3,100 00	
J. Pierpont Morgan.....	5,000 00	
J. Pierpont Morgan, Jr.....	2,500 00	
Percy R. Pyne.....	2,000 00	
Wm. Rockefeller.....	1,500 00	
Felix M. Warburg.....	2,500 00	29,600 00

Temporary Working Fund Capital for General Receipts.....	500 00
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Total net receipts for the development of all departments..... **\$177,366 98**

Patron :

Andrew Carnegie.....	1,000 00
Temporary Working Fund Capital.....	400 00
Bursar's Account.....	7,500 00
Loans.....	8,500 00
Proceeds of Note held by United States Trust Company.....	25,000 00
	<u>\$219,766 98</u>

Examined { ANSON W. HARD } Auditing
and Approved { PERCY R. PYNE } Committee

GENERAL ACCOUNT*

DISBURSEMENTS

1911

Geology and Invertebrate Palæontology.....	\$4,685	04
Mineralogy	1,141	13
Mammalogy and Ornithology.....	12,824	68
Vertebrate Palæontology.....	19,297	94
Professor Osborn's Research and Publication Fund.	4,244	64
Anthropology.....	29,450	85
Invertebrate Zoölogy.....	7,864	44
Ichthyology and Herpetology	4,152	09
Physiology.....	2,366	31
Public Health.....	918	33
Woods and Forestry.....	445	03
Library.....	9,734	70
Publications.....	16,050	04
Public Education.....	6,521	26
Preparation and Exhibition	18,274	09
Heating and Lighting.....	1,347	63
Repairs and Installation.....	3,100	19
General Supplies.....	17,867	82
Administration.....	4,666	54
Interest on Overdrafts	446	83
Total net disbursements for the development of all departments.....		\$165,399 58
Patron:		
Transferred to Endowment and Investment Account.....		1,000 00
Temporary Working Fund:		
Capital transferred to Tahiti Fund, Special Funds Account.....		400 00
Bursar's Account.....		7,500 00
Loans.....		8,500 00
Cash on hand December 31, 1911:		
Cash in Bank	\$11,967	40†
Proceeds of Note held by United States Trust Company to meet overdrafts.....	25,000	00
		36,967 40
		\$219,766 98

[E. & O. E.]

CHARLES LANIER, *Treasurer*

NEW YORK, December 31, 1911

* Disbursements of this account are made, as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties and for the support of scientific work.

† Since orders and contracts of the 1911 Budget, amounting to **\$11,312.61**, have been carried forward to the 1912 Budget, the net cash balance for the year is **\$654.79**.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1911

GEOLOGY:

PEARY METEORITES:

Balance.....	\$375 00	
Mrs. Morris K. Jesup.....	10,125 00	
		<u>\$10,500 00</u>

CROCKER LAND EXPEDITION:

George Borup Guarantee:

Mrs. Geo. B. French.....	250 00	
Harry E. Converse.....	10 00	
Andrew G. Weeks.....	10 00	
Richard S. Dow.....	50 00	320 00
		<u>\$10,820 00</u>

MINERALOGY:

MATILDA W. BRUCE FUND:

Interest.....		660 00
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MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND:

Balance.....		58 70
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NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Balance.....	\$2,852 36	
John L. Cadwalader.....	250 00	
Mrs. Morris K. Jesup.....	250 00	
Miss Caroline L. Morgan.....	250 00	
F. Aug. Schermerhorn.....	500 00	
Mrs. Harriet L. Schuyler.....	250 00	
Mrs. John B. Trevor.....	250 00	
Mrs. Robert Winthrop.....	250 00	
		<u>4,852 36</u>

MRS. FRANK K. STURGIS FUND:

Balance.....		3 26
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CONGO EXPEDITION FUND:

Balance.....	1,372 25	
Cleveland H. Dodge.....	1,000 00	
A. D. Juilliard.....	2,500 00	
Charles Lanier.....	1,000 00	
J. Pierpont Morgan, Jr.....	1,000 00	
William Rockefeller.....	1,500 00	
John B. Trevor.....	2,500 00	
		<u>10,872 25</u>

CRANDALL OÖLOGICAL FUND:

Balance.....	1,160 00	
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Carried forward..... \$11,480 00

*SPECIAL FUNDS ACCOUNT**

DISBURSEMENTS

1911

GEOLOGY:

PEARY METEORITES:

Purchase of Peary Meteorites, final payment,	\$10,500 00
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MINERALOGY:

MATILDA W. BRUCE FUND:

Purchase of Mineral Specimens.....	660 00
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MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND:

Expenses of field assistant.....	\$58 70
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NORTH AMERICAN ORNITHOLOGY FUND,
SERIES 2:

For expenses of field work and for preparation of groups.....	3,351 10
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CONGO EXPEDITION FUND:

For expenses of field work in Africa, salaries of Messrs. Lang and Chapin, and equipment of expedition.....	8,266 16
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<i>Carried forward</i>	<u>\$11,160 00</u>
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*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1911

Brought forward..... \$11,480 00

MAMMALOGY AND ORNITHOLOGY—Continued

SOUTH AMERICAN BIRD FUND:

George B. Case.....	\$100 00
Evan M. Evans.....	100 00
W. F. Patterson.....	100 00
Mrs. Marian von R. Phelps.....	300 00
C. B. Riker.....	100 00
George P. Shiras.....	100 00
Mrs. Frank K. Sturgis.....	200 00
Frederic C. Walcott.....	100 00

\$1,100 00

GEORGE MCKESSON BROWN FUND:

172 00

FUR SEAL GROUP FUND:

Ogden Mills..... 714 39

WHALE MODEL FUND:

George S. Bowdoin..... 1,000 00

JAPAN AND KOREA EXPEDITION FUND:

Charles L. Bernheimer..... 200 00
20,132 96

VERTEBRATE PALÆONTOLOGY:

VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

Henry F. Osborn..... 1,750 00

HORSE EXPLORATION FUND:

Henry F. Osborn..... 250 00

Frank K. Sturgis..... 250 00

500 00

2,250 00

ANTHROPOLOGY:

EAST ASIATIC FUND:

Balance..... 2,343 49

BUREAU OF MISSIONS FUND:

Balance..... 455 00

PRIMITIVE PEOPLES OF SOUTHWEST FUND:

Balance..... 444 54

Archer M. Huntington..... 5,000 00

5,444 54

INDIAN TIPI FUND:

Mrs. Edward H. Harriman..... 3,000 00

TEFFT COLLECTION FUND:

Felix M. Warburg..... 500 00

MURAL PAINTINGS FUND:

Archer M. Huntington..... 1,000 00

YUCATAN FUND:

Cleveland H. Dodge..... 500 00

J. Pierpont Morgan, Jr..... 500 00

1,000 00

RESERVE FUND:

Cleveland H. Dodge..... 1,000 00

14,743 03

Carried forward..... \$48,605 99

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1911

Brought forward..... \$11,160 00

MAMMALOGY AND ORNITHOLOGY—Continued

SOUTH AMERICAN BIRD FUND:

For expenses of field work in U. S. of Colombia.. \$1,100 00

GEORGE MCKESSON BROWN FUND:

Transferred to Preparation and Exhibition General Account for the mounting of a swordfish... 172 00

FUR SEAL GROUP FUND:

Transferred to Preparation and Exhibition General Account for the preparation of a Fur Seal Group..... \$290 89

Transferred to Repairs and Installation General Account for the casing of a Fur Seal Group.... 423 50
\$714 39

JAPAN AND KOREA EXPEDITION FUND:

For expenses of field assistant 200 00
13,862 35

VERTEBRATE PALÆONTOLOGY:

VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

For field expenses 700 00
Transfer to Vertebrate Palæontology General Account for field expenses..... 1,050 00
1,750 00

HORSE EXPLORATION FUND:

For service of preparator..... 250 00
Transferred to Vertebrate Palæontology General Account for service of preparator..... 250 00
500 00
2,250 00

ANTHROPOLOGY:

EAST ASIATIC FUND:

For special services..... 3 00

BUREAU OF MISSIONS FUND:

For purchase of specimens..... 16 20

PRIMITIVE PEOPLES OF SOUTHWEST FUND:

For expenses of field work and purchase of specimens..... 1,186 43
Transferred to Anthropology General Account for the purchase of the Lumholtz Collection..... 2,300 00
3,486 43

INDIAN TIPI FUND:

For the purchase of a Buffalo Skin Tipi..... 3,000 00

TEFFT COLLECTION FUND:

Purchase of Collection..... 500 00

YUCATAN FUND:

For the preparation of casts and molds..... 1,000 00

RESERVE FUND:

Transferred to Anthropology General Account for part payment of Mural Paintings for Northwest Coast Hall..... 1,000 00
9,005 63

Carried forward..... \$36,277 98

SPECIAL FUNDS ACCOUNT

RECEIPTS

1911

<i>Brought forward</i>		\$48,605 99
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INVERTEBRATE ZOÖLOGY :

ASHOKAN WATERSHED BIOLOGICAL SURVEY

FUND :

Balance		\$136 50
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OCEANOGRAPHIC FUND :

Arthur Curtiss James	\$7,500 00	
N. Y. Botanical Garden	1,000 00	
N. Y. Zoölogical Society	1,000 00	9,500 00

INVERTEBRATE ZOÖLOGICAL EXPLORATION

FUND :

Charles H. Senff		2,000 00
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HOFFMAN ENTOMOLOGICAL FUND:

Samuel V. Hoffman		534 50
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TAHITI FUND:

Temporary Working Fund, Capital of General Account		400 00	12,571 00
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ICHTHYOLOGY AND HERPETOLOGY:

DODGE ICHTHYOLOGY FUND:

Balance	2,011 76	
Cleveland H. Dodge	1,500 00	3,511 76

PUBLIC EDUCATION:

CHILDREN'S ROOM FUND:

Balance	170 31	
E. J. de Coppet	25 00	
Ellen H. Cotheal	10 00	
A. G. Sedgwick	10 00	
Association of Collegiate Alumnæ	20 00	235 31

TEACHERS' DAY FUND:

Balance		30 00
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JONATHAN THORNE MEMORIAL FUND:

Balance	456 44	
Interest	1,059 89	1,516 33

TRANSPORTATION FUND:

Henry Phipps		100 00	1,881 64
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PUBLICATIONS :

JESUP NORTH PACIFIC EXPEDITION

PUBLICATIONS:

Balance		2,295 53
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Total net receipts for the development of specific departments		\$68,865 92
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<i>Carried forward</i>		\$68,865 92
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SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1911

Brought forward..... \$36,277 98

INVERTEBRATE ZOÖLOGY:

ASHOKAN WATERSHED BIOLOGICAL SURVEY

FUND:

For field work. \$65 00

OCEANOGRAPHIC FUND:

For field work in Lower California..... 9,500 00

INVERTEBRATE ZOÖLOGICAL EXPLORATION

FUND:

For field work in Lesser Antilles and British
Guiana..... 2,000 00

HOFFMAN ENTOMOLOGICAL FUND:

For field work in North Carolina..... 534 50
12,099 50

ICHTHYOLOGY AND HERPETOLOGY:

DODGE ICHTHYOLOGY FUND:

For expenses in field and purchase of specimens 2,123 89

PUBLIC EDUCATION:

CHILDREN'S ROOM FUND:

Purchase of supplies..... 143 32

TEACHERS' DAY FUND:

Transferred to Public Education General Account
for expenses in connection with Teachers' Day,
November, 1911..... 30 00

JONATHAN THORNE MEMORIAL FUND:

For services of Instructor..... 330 00
503 32Total net disbursements for the development of specific
departments..... \$51,004 69

Carried forward..... \$51,004 69

SPECIAL FUNDS ACCOUNT

RECEIPTS

1911

<i>Brought forward</i>	\$68,865 92
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PENSION FUND:

Balance.....	1,000 00
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INVESTMENT FUND:

GENERAL ENDOWMENT FUND:

Balance.....	\$954 30	
Sale of bonds.....	8,000 00	
		\$8,954 30

MORRIS K. JESUP FUND:

Balance.....	241 19
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JONATHAN THORNE MEMORIAL FUND:

Balance.....	820 00	
		10,015 49
		663 72

INTEREST ON CREDIT BALANCES:

\$80,545 13

Examined	{ ANSON W. HARD }	{ Auditing
and Approved		

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1911

Brought forward..... \$51,004 69

INVESTMENT FUND:

TRANSFERRED TO ENDOWMENT AND INVESTMENT
ACCOUNT AWAITING INVESTMENT:

GENERAL ENDOWMENT FUND.....	\$8,954 30	
MORRIS K. JESUP FUND.....	241 19	
JONATHAN THORNE MEMORIAL FUND.....	820 00	10,015 49

INTEREST ON CREDIT BALANCES:

EARNINGS TO DECEMBER 31, 1911, TRANSFERRED
TO GENERAL ACCOUNT.....

CASH ON HAND DECEMBER 31, 1911.....	663 72	
	18,861 23	
	<u>\$80,545 13</u>	

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1911*

LIST OF ACCESSIONS, 1911

DEPARTMENT OF PUBLIC EDUCATION

BY GIFT

- BRIG. GEN. GEORGE J. ANDERSON, Iloilo, Panay, P. I.
5 Photographs of snake skin, hacienda and pig.
- ALBERT S. AND CHARLOTTE B. BICKMORE, New York City.
Collection of geographical, historical and zoölogical lantern slides,
including 12,000 colored and 8,000 uncolored.
- CHARLES COURTNEY, Sulligent, Ala.
Cotton, budded, full blown, fallen, wads of cotton, boll, etc.
- A. RADCLYFFE DUGMORE, New York City.
36 Photographs of Africa.
- LIEUT. GEORGE T. EMMONS, Princeton, N. J.
6 Photographs of house posts in Alaska.
- BENEDICT J. GREENHUT, New York City.
Mounted Golden Pheasant.
- WILLIAM MACK.
Small vivarium with living frogs and salamanders.
- DEPARTMENT OF MINERALOGY, transfer.
1 Photograph and 3 slides of Diamond Mines of Brazil, S. A.
- ADMIRAL ROBERT E. PEARY, Washington, D. C.
2 Photographs of trout.
- H. W. ROBERT, London, England.
1 Photograph of elderberry tree.
- MRS. AGNES L. ROESLER, New York City.
17 Photographs of Stuttgart.
- HON. THEODORE ROOSEVELT, Oyster Bay, L. I.
1 Arctic Owl and 2 Plovers, mounted.
- CHARLES M. SCHWAB, Bethlehem, Pa.
12 Photographs of machine shops, engines, press, guns, etc., of the
Bethlehem Steel Co.

BY PURCHASE

- 7 Mounted skins of fishes.
535 Negatives of reptiles and amphibians.
28 Photographs of lighthouses, buoys, beacons, etc.

THROUGH MUSEUM EXPEDITIONS

- ROY C. ANDREWS, New York City.
985 Negatives of the South Pacific, Philippines, Japan and China.
- JOHN A. GROSSBECK, New Brighton, S. I.
80 Negatives of Jamaica, B. W. I.
- HERBERT LANG, New York City.
36 Prints of the Congo.

CLYDE L. PATCH, New York City.

26 Negatives of the maple sugar industry.

VIHLJALMR STEFÁNSSON AND R. M. ANDERSON.

40 Negatives of Coronation Gulf and the Arctic region, British North America.

DEPARTMENT OF MINERALOGY

By GIFT

MATILDA W. BRUCE FUND.

81 Specimens, including Apophyllite, Analcite, Aragonite, Aenigmatite, Beryl, Benitoite, Brucite, Brugnatellite, Calcite, Celestite, Chrysoprase, Cervantite, Columbite, Chrom-Vesuvian, Canfieldite, Garnet (*grossularite*), Gold, Häüyne, Hydrotalcite, Heliophyllite, Koenenite, Leucite, Menaccanite, Manganite, Muscovite, Natrolite, Niccolite, Natro-Jarosite, Opal (*hyalite*), Pectolite, Prehnite, Pyrite, Phacolite, Pseudo-malachite, Quartz, Reinite, Rissoite, Spodumene, Smithsonianite, Semseyite, Tourmaline (*rubellite*), Tarbuttite, Tantalite, Thomsonite, Vauquelinite, Vesuvianite, with 175 photographs of Snow Crystals.

F. J. ARKINS, New York City.

1 Specimen Stibnite, Cripple Creek, Colo.

1 Specimen Ricardite, Vulcan, Colo.

2 Specimens Orthoclase, New Mexico.

1 Specimen Pyrite, Central City, Colo.

F. A. CANFIELD, Dover, N. J.

1 Specimen Quartz, Iceland.

C. G. CHRISTMAN, New York City.

specimens from tunneling and excavations of Catskill Aqueduct, Yonkers, N. Y.

A. S. COFFIN, New York City.

1 Specimen Galenite, New York City.

CHARLES DANZIGER, New York City.

2 Specimens Calcite, West Paterson, N. J.

1 Specimen Calcite and Quartz, West Paterson, N. J.

2 Specimens Prehnite, West Paterson, N. J.

2 Specimens Pectolite, West Paterson, N. J.

E. R. DODGE, New York City.

1 Specimen Corundum, Canada.

O. G. FUCHS, New York City.

1 Specimen Natrolite, West Paterson, N. J.

1 Specimen Thomsonite, West Paterson, N. J.

A. D. GABAY, New York City.

1 Specimen Japanese Agate.

2 Pieces colored Pyrite in clay, Smith River, N. J.

9 Quartz Crystals (groups), Herkimer Co., N. Y.

8 Quartz Crystals, "*Herkimer Diamonds*," enclosing Bitumen.

- D. I. GARRETSON, New York City.
 1 Specimen Quartz Conglomerate, Long Island.
- MRS. J. W. HASLEHURST, New York City.
 9 Specimens Obsidian, Wyoming.
 1 Specimen Opalized Wood, Montana.
 1 Specimen Silicified Wood, with chalcedonic layers replacing cambium, Livingston, Mont.
 2 Specimens Pyropes (*garnet*), Alaska.
- C. W. HOADLEY, Englewood, N. J.,
 1 Specimen Muscovite on trap rock, Fort Lee, N. J.
- DR. E. O. HOVEY, New York City.
 1 Specimen Dolomite.
 1 Specimen Talcose Schist.
- H. McMANUS, New York City.
 2 Specimens Hübnerite, Madison Co., Mont.
- EMIL MOSONYI, Guatemala City.
 1 Specimen Silicified Palmetto.
 1 Specimen Opalized Wood.
- A. OPERTI, New York City.
 Quartz Crystals, Cape Sheridan, Arctic North America. Peary Expedition, 1909.
- HERMAN PAPKÉ, Jersey City, N. J.
 Photograph, new Erie Railroad cut, Jersey City, 1910.
- MISS ELVINE RICHARD, New York City.
 184 Miscellaneous Mineral Specimens, principally polished Agates.
- WM. J. SMITH, New York City.
 10 Miscellaneous Mineral Specimens.
- G. O. SIMMONS, Brooklyn, N. Y.
 1 Specimen Diabantite, Upper Montclair, N. J.
- DR. CARLOS DE LA TORRE, Havana, Cuba.
 Gold in plates, in a decomposed igneous rock, Holquin Mines, Cuba.
- G. D. VAN ARSDALE, New York City.
 3 Specimens of a mixture of Carbon, Sulphur, Vanadium and Uranium; near Quisqueite, Utah.
 1 Specimen Carnotite in sandstone.

BY EXCHANGE

- CHARLES DANZIGER, New York City.
 1 Specimen Quartz Pseudomorph, West Paterson, N. J.
 1 Specimen Hematite on quartz, West Paterson, N. J.
 1 Specimen Pectolite, West Paterson, N. J.
- HENRY C. JENKINS, New York City.
 3 Lantern Slides and 1 Print illustrating Diamond Diggings at Minas Geraes, Brazil.
- PROF. R. A. A. JOHNSON, Canadian Geological Survey.
 1 Specimen Barite on Fluorite, Madoc, Hastings Co., Ontario.

PROF. S. KO, Fuknaka University of Japan.

- 1 Specimen Danburite, Obira, Bungo, Japan.
- 1 Specimen Apophyllite, Maze, Echigo, Japan.
- 1 Specimen Axinite, Hinga, Japan.
- 4 Specimens Axinite, Obira, Bungo, Japan.

PROF. H. B. NORTH, New Brunswick, N. J.

- 1 Specimen Pyrite altered to Limonite, Rock Co., Wis.
- 1 Specimen Marcasite altered to Limonite, Rock Co., Wis.

OTTO F. PFORDTE, Rutherford, N. J.

- 1 Specimen Hematite after Calcite, Langenberg, Saxony.
- 1 Specimen Chalcopryrite with Dolomite and Siderite, Seegen, Westphalia.
- 1 Specimen Picrolite, Broughton, Canada.
- 2 Specimens Polydimite, Sudbury, Ontario.
- 1 Specimen Silver Vein, Cobalt, Ontario.

GEORGE O. SIMMONS, Brooklyn, N. Y.

- 1 Specimen Stalactite Aragonite, Tombstone, Ariz.
- 2 Specimens Herderite, Poland, Me.

MILTON G. SMITH, New York City.

- 1 Specimen White Beryl, Pala, Cal.
- 3 Specimens Benitoite, San Benito Co., Cal.
- 1 Specimen Neptunite, San Benito Co., Cal.
- 1 Specimen Egglestonite, San Mateo Co., Cal.

BY PURCHASE

- 2 Specimens Barite, Frizington, England.
- 1 Specimen Calcite, Alston, England.

THROUGH MUSEUM EXPEDITIONS

- 2 Specimens Asphalt, Jahitonico Mine, Cuba, and 3 specimens Calcite, Matanzas, Cuba. Collected by Mr. Barnum Brown.
- 5 Flat seam fragments of Gypsum, San Bartolomé Bay, Lower California; 2 specimens Chalcedony, Agua Verde Bay, Lower California. Collected by Dr. Charles H. Townsend.

DEPARTMENT OF MAMMALOGY AND
ORNITHOLOGY

MAMMALS

BY GIFT

WILLIAM ANSON, Christoval, Tex.

- 1 Skin of *Felis* from Texas.

E. H. BAYNES, Meriden, N. H.

- Skin and skull of Australian Wild Dog.

C. WILLIAM BEEBE, New York City.

37 Small mammals from Borneo and northeast Burma.

PROF. ALBERT S. BICKMORE, New York City.

3 Skins of Harbor Seal (*Phoca vitulina*).

FREDERICK BLASCHKE, New York City.

1 Marmot from New York.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.

1 Skin of Elephant Seal.

DR. L. C. BULKLEY, New York City.

Mammal skins and skulls from Malay Peninsula.

N. G. BUXTON, Johnstown, Ohio.

1 Least Weasel from Youngstown, Ohio.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY, transfer.

6 Bats from British Guiana.

3 Bats and 1 Mouse from Jamaica, B. W. I.

1 Bat from Trinidad, B. W. I.

DEPARTMENT OF PARKS, New York City.

17 Monkeys, 1 Ocelot, 1 Leopard cub, 2 Hyænas, 1 Black Bear, 1 Black Bear cub, 1 Raccoon, 1 Badger, 1 Camel, 2 Zebras, 1 Bison, 1 White-tailed Gnu, 1 Nilghai, 1 Oryx, 1 Axis Deer, 2 Fallow Deer, 1 Guinea Pig, 3 Opossums.—Total, 39 specimens received in the flesh from the Central Park Menagerie.

F. F. HORTER, New York City.

1 Mole, in the flesh.

R. P. LOUNSBERY, Bedford, N. Y.

1 Elk head from Montana.

J. PIERPONT MORGAN, New York City.

1 Mounted Mountain Sheep's head.

NEW YORK AQUARIUM, New York City.

3 West Indian Seals, 1 Fur Seal, 2 Young Elephant Seals.—Total, 6 specimens received in the flesh.

NEW YORK ZOÖLOGICAL SOCIETY.

1 Chimpanzee, 1 Gorilla, 1 Lemur, 3 Monkeys, 1 Puma, 2 Leopards, 1 Snow Leopard, 2 Serval Cats, 1 Jungle Cat, 1 Marbled Cat, 1 Prairie Wolf, 2 Blue Foxes, 2 Red Foxes, 2 Minks, 1 Sun Bear, 1 Black Bear, 5 Sea Lions, 1 Hippopotamus (young), 2 Camels, 1 Llama, 1 Pygmy Buffalo, 3 Rocky Mountain Goats, 1 Nilghai, 1 Sitatunga Antelope, 1 Elk, 2 Hangul Deer, 1 Malabar Squirrel, 1 Spotted Cavy.—Total, 43 specimens received in the flesh from the New York Zoölogical Park.

MRS. E. LAWRENCE BREESE NORRIE, New York City.

1 Puma skull.

G. FREDERICK NORTON, New York City.

1 Glacier Bear from Alaska.

DR. W. S. RAINSFORD, New York City.

1 Monkey from British East Africa.

- JUAN E. REYNA, Ithaca, N. Y.
 17 Deer skulls and antlers from New Mexico.
- HON. THEODORE ROOSEVELT, Oyster Bay, L. I.
 2 Skins of *Diceros simus* (White Rhinoceros) from Africa.
- DR. LOUIS L. SEAMAN, New York City.
 2 Polar Bear skulls from Spitzbergen.
- MRS. R. O. STEBBINS, New York City.
 12 Deer skulls and antlers from various localities.
- MRS. F. A. VANDERLIP, Scarborough-on-the-Hudson, N. Y.
 1 Deer head from South Dakota.
- W. A. VAN RENSSELAER, Salt Point, N. Y.
 1 European Hare from Dutchess Co., N. Y.
- G. H. WAILES, New York City.
 1 Skin of Ribbon Seal from Alaska.
- WALTER WINANS, England and New York.
 1 Skin of European Weasel, 1 Hedgehog, 1 Wapiti and Red Deer hybrid, 2 Red Deer, 7 Wild Boars, for a group.
- FRANK WOOD, New Bedford, Mass.
 1 Skull of Elephant Seal from Kerguelen Island.
- MRS. J. HOOD WRIGHT, New York City.
 1 Scotch Terrier.
- MISS MARTHA T. YOUNG, New York City.
 1 Seal from Newfoundland.

BY EXCHANGE

- 1 Elephant Seal skull from the Antarctic; 44 specimens (alcoholics, skins, skulls and skeletons), from various Old World localities; cast of *Platanista gangetica*.

BY PURCHASE

- 48 Small mammals from China; 1 Aard-Vark; 1 skin and 1 skeleton of *Myrmecobius fasciatus*; 1 skeleton of *Cryptoprocta ferox*; 1 Tamarau (skin and skeleton); 12 Carnivores from Alberta, Canada; 8 small Carnivores from California; 11 Deer antlers from New Mexico; 239 small mammals from Venezuela; 13 small mammals from northern Colombia; 1 complete skeleton each of *Chrysocloris trevelyani*, *Potamogale velox* and *Manis javanica*.

THROUGH MUSEUM EXPEDITIONS

- 3 Skins and skulls of large mammals from New Mexico; 273 specimens from Lower California and contiguous islands, including 4 skins and skulls and 2 complete skeletons of the California Elephant Seal; 429 specimens from western Colombia; 1 Monkey and 1 Squirrel from British Guiana; 1 skeleton of *Berardius bairdi* from Japan.

BIRDS

BY GIFT

- B. A. ALLISON, Churchville, Md.
 1 Cowbird, in the flesh.
- BRIG. GEN. GEORGE J. ANDERSON, Iloilo, Panay, P. I.
 6 Skins of Philippine Island birds.
- WILLIAM BARTELS CO., New York City.
 1 Mandarin Duck and 1 Baikal Teal, in the flesh.
- FREDERICK BLASCHKE, New York City.
 1 Skin of Green Heron.
- JAMES O. BLOSS, New York City.
 1 Skin of Golden Pheasant.
- BEECHER S. BOWDISH, Demarest, N. J.
 5 Small birds and 1 Duck Hawk, in the flesh.
- HOWARTH BOYLE, Elmhurst, N. Y.
 1 Skin of Saw-whet Owl.
- WILLIAM L. BREESE, New York City, in memory of his father,
 WILLIAM LAWRENCE BREESE.
 238 Bird skins, about 425 eggs and 3 nests, from eastern North America.
- MRS. ISABEL BROWN, West Point, N. Y.
 2 Skins, male and female, of Resplendent Trogon, from Guatemala.
- J. B. BURST, Ridgewood, N. J.
 13 Fore-arm (radius and ulna) skeletons of wounded Ducks, showing manner in which the bones have grown together after injury.
- FRANK M. CHAPMAN, Englewood, N. J.
 1 Bird skin.
- S. H. CHUBB, New York City.
 1 Nest of Yellow-throated Vireo and 1 nest of Long-billed Marsh Wren.
- DR. HENRY E. CRAMPTON, New York City.
 1 Troupial from South America, in the flesh.
- C. H. CROSBY, New York City.
 1 Mounted Whistling Swan.
- HOMER DAVENPORT, Morris Plains, N. J.
 1 Four-legged Silver Pheasant chick.
- DEPARTMENT OF PARKS, New York City.
 2 Rheas, 6 Pheasants, 1 Pigeon, 2 Storks, 1 Goose, 2 Ducks, 7 Swans,
 1 Booby, 5 Eagles, 1 Osprey, 3 Barn Owls, 7 Cockatoos,
 11 Parrots, 8 song birds.—Total, 57 specimens, received in the flesh from the Central Park Menagerie.
- L. A. ELDRIDGE, New York City.
 1 Mounted Duck from Long Island, apparently an albinistic hybrid Muscovy.
- HON. FRANCISCO ESCOBAR, New York City.
 102 Skins and dismantled specimens of Colombian birds.

WILLIAM FLOYD, Mastic, N. Y.

15 Shore birds, 13 Ducks, 1 Marsh Hawk and heads and wings of 2 Ducks, in the flesh, all from Long Island.

J. FLYNN, Malone, N. Y.

1 Pied-billed Grebe, alive.

LOUIS A. FUERTES, Ithaca, N. Y.

3 African Doves, in the flesh, and body of 1 European Quail.

W. W. GRANT, Englewood, N. J.

1 Slate-colored Junco, in the flesh.

C. B. ISHAM, New York City.

36 Skins of North American birds.

FREDERIC H. KENNARD, Newton Center, Mass.

1 Fine skin of Florida Wild Turkey.

JOHN DRYDEN KUSER, Bernardsville, N. J.

1 Skin of Connecticut Warbler.

MR. AND MRS. CHARLES LAWRENCE, New York City.

1 Bullfinch, in the flesh.

DR. F. A. LUCAS, New York City.

1 Parula Warbler, in the flesh.

DR. F. E. LUTZ, Ramsey, N. J.

7 Skins of small Perching Birds from British Guiana.

CARL H. MEYER, New York City.

1 Adult male Marsh Hawk, in the flesh.

W. DE W. MILLER, Plainfield, N. J.

7 Birds from the vicinity of New York, in the flesh.

HON. MASON MITCHELL, Apia, Samoa.

9 Bird skins from Samoa.

NEW YORK ZOOLOGICAL SOCIETY.

1 Ostrich, 1 Rhea, 2 Emus, 1 Cassowary, 4 Pheasants, 9 Quails and Partridges, 1 Hemipode, 13 Pigeons, 2 Rails, 1 Auk, 1 Gull, 3 Plovers and Sandpipers, 2 Thick-knees, 2 Cranes, 1 Courlan, 1 Seriana, 1 Spoonbill, 2 Ibises, 2 Storks, 3 Herons, 1 Crested Screamer, 2 Swans, 4 Ducks, 1 Cormorant, 1 Turkey Vulture, 2 Hawks, 1 Eagle, 1 Kestrel, 6 Owls, 16 Parrots, 1 Laughing Kingfisher, 1 Hornbill, 1 Whippoorwill, 1 Coby, 3 Toucans, 3 Woodpeckers and 34 song birds. — Total, 132 specimens, received in the flesh from the New York Zoological Park.

WILLIAM B. NICHOLS, Santa Barbara, Cal.

1 Skull of California Brown Pelican.

CHARLES T. RAMSDEN, Guantanamo, Cuba.

4 Skins of Cuban birds.

C. W. RANTOUL, New York City.

1 Mounted Capercaillie.

Miss ELVINE RICHARD, New York City.

Case containing 30 mounted birds; also 1 egg of Ostrich, 1 of Loon and 2 of Hummingbird with nest.

DR. L. C. SANFORD, New Haven, Conn.

1 Adult male European Widgeon from North Carolina, in the flesh,
and 1 Duck, in the flesh.

H. F. STONE, Lawrence, N. Y.

3 Lesser Yellow-legs and 2 Olive-backed Thrushes, in the flesh.

Miss OLGA STRAUSS, New York City.

1 Carved egg of Emu and 1 skin of Snowy Heron made up like a fan.

CHARLES W. WHITTIER, New York City.

1 Adult American Osprey, in the flesh.

WALTER WINANS, England and New York.

1 Skin of female English Pheasant assuming plumage of the male,
1 skin of European Sparrow Hawk and 1 of the Rook.

BY EXCHANGE

7 Skins of song birds from Colorado.

1 Rose-breasted Grosbeak.

BY PURCHASE

5 Skins of Grouse from Alberta; 2 Ptarmigan from Alaska; 33 skins from Merida, Venezuela, and 81 from Cuba, 79 skins from Colombia; 2 skins of Jabirus from Colombia; 2 mounted Kiwis (*Apteryx mantelli*).

THROUGH MUSEUM EXPEDITIONS

805 Skins from Lower California and Guadalupe Island; 3,046 skins from Colombia; 3 Asiatic birds.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

BY GIFT

AMES TRANSFER CO., New York City.

Head of mule.

W. L. BEASLEY, New York City.

Water-color sketch restoration of *Arsinoitherium* by Charles R. Knight.

J. MORGAN CLEMENTS, New York City.

Miscellaneous footbones, etc., from Pleistocene asphalt formation of Rancho La Brea, near Los Angeles.

DEPARTMENT OF ANTHROPOLOGY, transfer.

Mastodon molar tooth.

DEPARTMENT OF MAMMALOGY, transfer.

Set of left grinding teeth of Zebra.

Set of left grinding teeth of Ass.

- LIEUT. G. T. EMMONS, Princeton, N. J.
2 Mammoth teeth from Alaska.
- DR. EBERHART FRAAS, Stuttgart, Germany.
Cast of tooth of fossil horse from South Africa (made from original specimen loaned through courtesy of Dr. Fraas).
- H. P. FRAMBLEY, Las Vegas, N. Mex.
Tooth of Imperial Mammoth from New Mexico.
- MADISON GRANT, New York City.
Cast of lower jaw of the "Heidelberg Man."
- HENRY L. GRIFFIN, Riverhead, L. I.
Head of horse 41 years old.
- CARL HAGENBECK, Stellingen-bei-Hamburg, Germany.
Models of 10 extinct Pleistocene mammals of South America; model of Permian reptile *Naosaurus*.
- HENRY FAIRFIELD OSBORN, New York City.
2 Copies of "The Age of Mammals," for use in exhibition halls.
- DR. OTTO SCHOETENSACK.
Cast of lower jaw of *Homo heidelbergensis*, original from Mauer near Heidelberg, Germany.
- CHARLES H. STERNBERG, Lawrence, Kans.
Lower jaw of Pteranodon.
- SWIFT & CO., New York City.
2 Fœtal calf heads.
- THOMAS WHITE CO., New York City.
Front feet of horse.
Head of mule.
20 Sets carpal bones.
Set of upper and lower teeth of horse.
- HOWARD WILLETS, New York City.
Head and limbs of horse, "Heatherbloom."

BY EXCHANGE

- BRITISH MUSEUM (NATURAL HISTORY), London, England.
Collection of specimens and casts of fossil vertebrates from various localities and horizons.
- NATURAL HISTORY MUSEUM, Basel, Switzerland.
Collection of fossil mammals from the Eocene of Egerkingen, Switzerland, and Miocene of Orléanais, France, studied and identified by Dr. Stehlin.
- NATURAL HISTORY MUSEUM, Vienna, Austria.
Casts of skeleton of the extinct giant lemur *Megaladapis* from the Pleistocene of Madagascar and of various fossil mammals from the Tertiary of the Vienna Basin.
- PEABODY MUSEUM, Yale University, New Haven, Conn.
Cast of fossil footprint, *Thrinopus*, from Devonian of Pennsylvania, modeled restoration of American Mastodon and models of heads illustrating the Evolution of the Elephant.

BY PURCHASE

- Part of skeleton of a Cretaceous Pterodactyl from the Niobrara chalk beds of western Kansas, collected by George Sternberg.
 Skull and jaws of extinct wolf, *Canis indianensis* from asphalt beds of La Brea, near Los Angeles.
 3 Cattle heads.
 Cleaned skull of Zebra, *E. boehmi*.
 Domestic ass for skeleton.

THROUGH MUSEUM EXPEDITIONS

CRETACEOUS OF ALBERTA.

- Skeleton of a new Duck-billed Dinosaur, skulls of Carnivorous and Armored Dinosaurs and several partial skeletons of dinosaurs.

EOCENE OF WYOMING.

- Collection of fossil mammals of the Lower Eocene from the Big Horn Valley, Wyoming, including an incomplete skeleton of the Four-toed Horse and partial skeletons, jaws and other parts of many rare species.

MIOCENE OF NEBRASKA.

- Skull and jaws with part of skeleton of the "Giant Pig" *Dinohyus*, 75 skulls and numerous skeleton bones of the Pair-horned Rhinoceros *Diceratherium*, from the great fossil quarry near Agate, Sioux Co., Nebr.

SOUTHERN UNITED STATES, MEXICO AND CUBA.

- Collection of Pleistocene fossil vertebrates from province of Santa Clara, Cuba (jointly with Academy of Sciences, Havana); complete carapace of the giant "Tortoise-Armadillo" *Glyptodon*, and other specimens from Pleistocene of Jalisco, Mexico; lower jaw of a new *Mastodon* from Pliocene of Sonora, Mexico; mammoth jaw and other specimens from Peace River and other localities in Florida; and minor specimens from localities in Texas.

DEPARTMENT OF ICHTHYOLOGY AND
HERPETOLOGY

FISHES

BY GIFT

CLEVELAND H. DODGE FUND.

- Collection of fossil fishes made by Dr. L. Hussakof from the Devonian and the Basal Carboniferous of Ohio and Kentucky, including remains of the giant Arthrodire, *Titanichthys*.
 130 *Ceratodus* young, all stages from hatching to specimens four inches in length; 6 small Catfish.
 10 Sea Lampreys (*Petromyzon marinus*), with accessories and studies for a group to show nesting habits of the Lamprey. Collected by Dr. L. Hussakof.

CLEVELAND H. DODGE FUND—Continued

- 1 *Dipterus valenciennesi*.
- 90 Fossil sharks' teeth from Miocene of Kern Co., Cal.
- 5 Mounted fishes (3 Trout, 1 Black Bass, 1 *Amia*).
- 14 Mounted fishes.
- 22 Fossil fishes.
- Skeleton of Tunny head, and young Pompano. Collected by Mr. J. T. Nichols.
- 1 *Dreysensia polymorpha*.
- 2 *Dipterus valenciennesi*, 1 *Ischnacanthus*, head and teeth.
- 12 Fossil fishes from the Upper Devonian of Indiana.
- 2 Skeletonized specimens (*Amia calva* and *Petromyzon fluviatilis*), and 1 specimen of *Torpedo nerva*.

DAVID T. ABERCROMBIE, New York City.

- 2 Marston's trout skins (*Salvelinus marstoni*).

THOMAS BARBOUR, Cambridge, Mass.

- 15 Minnows and Suckers from the Adirondacks.

FREDERICK BLASCHKE, New York City.

- Shark jaw (part).

MORTON L. CHURCH, Marshall, N. C.

- 3 Catfish, 3 Redhorse, 1 head of Redhorse, 1 Minnow (new to Museum collection), 4 *Hybopsis kentuckiensis*, 1 *Catostomus nigricans*.

RUSSELL J. COLES, Danville, Va.

- Collection of fishes from Prince Edward Island.
- Barrel of fishes from North Carolina.

PROF. BASHFORD DEAN, Riverdale-on-Hudson, N. Y.

- 1 Brook Lamprey, 1 *Agriopus peruvianus*, 3 *Stygicola dentatus*, 3 *Lucifuga subterraneus*, 1 *Loricaria stübbeli*, 10 Egg-capsules of *Chimæra collei*, 3 *Neoliparis fissuratus*, 2 *Oxycottus embryum*, 1 *Caularchus meandricus*, 2 *Palæoxyris belicteroides*.

Tank of formalin fishes from Japan.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY, transfer.

- About 20 specimens of miscellaneous fishes from different parts of the world, with data.

DEPARTMENT OF MAMMALOGY, transfer.

- 4 Salmonids, 1 Cottid. Received from the Stefánsson-Anderson Expedition.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, transfer.

Dental plate of Ladyfish. Collected by Mr. Brown in the Cretaceous of Alberta, Canada.

Remains of fossil Swordfish, *Cylindracanthus*. Collected by Mr. Brown in the Jackson beds of Mississippi.

- 4 Vertebræ of *Amia*. Collected by Mr. Granger in the Wasatch formation.

Cuban fishes (8 species). Collected by Mr. Brown.

- DR. A. B. DEYWARD, New York City.
Undescribed Frogfish from Barbados.
- RICHARD DORN, New York City.
6 Living specimens of *Gambusia*.
- ALFRED FRANK, New York City.
1 Large shark (*Carcharhinus obscurus*).
- W. A. GRIFFITH, Quebec, Canada.
1 Marston's trout (skin) (*Salvelinus marstoni*).
- WILLIAM GRUNDLACH, New York City.
2 Fossil fishes, *Gyrodus macrophthalmus* and *Leptolepis dubius*, from the Lithographic stone of Bavaria.
- J. W. HISCOX, New York City.
1 Tilefish (*Lopholatilus chamaeleonticeps*).
- HARRY K. JOHNSON, Vicksburg, Miss.
Sword of a fossil Swordfish from Mississippi.
- FRED KESSLER, New York City.
1 Clear-nosed Skate.
- SAMUEL NAGEL, New York City.
8 *Menidia gracilis*.
- NEW YORK AQUARIUM, New York City.
Head of Dusky Shark, 2 pelagic Mackerels, 4 Angel Fish, 1 *Rachycentron*, 1 Parrot Fish, 1 Soapfish, 1 Drumfish, 1 Hogfish, several Trunkfish, 1 *Seriola zonata*, 1 *Amia calva*, 1 Sergeant Fish, 1 *Notropis bifrenatus*.
- OREGON STATE FISHERIES, Portland, Oreg.
1 Small Blue-back Salmon.
- WILLIAM MILLER REED, Germantown, Pa.
2 Small Flying Fish and 1 Leather Jacket, from the high seas.
- Miss ELVINE RICHARD, New York City.
2 Sea Horses (dried).
- M. F. SAVAGE, New York City.
Skin of a record (16 lb.) Conger Eel.
- DR. E. T. SOUTHWELL, Colombo, Ceylon.
3 Embryos of *Pristis cuspidatum*.
- EDWIN THORNE, Babylon, L. I.
Jaw bones of *Carcharhinus obscurus*.
- HERBERT Q. VAN HOLT, Tompkinsville, S. I.
Albula teeth.

BY EXCHANGE

- BRITISH MUSEUM (NATURAL HISTORY), London, England.
1 *Cichlasoma*, 1 *Pterophyllum*, 1 *Geophagus*, 10 fossil fishes, 8 *Ptychodus* (5 species), 1 *Saurichthys acuminatus*, 1 *Kallos-trakon podura*.
- INDIANA UNIVERSITY, Bloomington, Ind.
6 Cichlids (South American).

L. MOYSEY, Nottingham, England.

8 Casts of supposed egg-capsules of fossil Chimæroids, *Palaoxyris*,
Fayolia, *Vitacapsula*.

PROF. L. PLATE, Jena, Germany.

2 Myxinoids.

ROYAL BOHEMIAN MUSEUM, Prag, Bohemia.

Cast of *Orthacanthus senckenbergianus* (head and part of body of large fish).

Cast of *Sagenodus* (*Ctenodus*) *tardus*.

AMPHIBIANS

BY GIFT

CLEVELAND H. DODGE FUND.

5 *Bufo americanus*, 17 *Rana clamitans*, 34 *Rana palustris*,
68 *Rana sylvatica*, 3 *Rana virescens*, 2 *Hyla pickeringii*,
1 *Amblystoma punctatum*, 8 *Plethodon cinereus*, 4 *Plethodon*
cinereus erythronotus, 6 *Desmognathus fusca*, 5 *Plethodon*
glutinosus, 5 *Spelerpes bilineatus*, 1 *Spelerpes ruber*. Collected
in vicinity of New York by G. von Krockow.

28 *Bufo americanus*, 12 *Rana sylvatica*, 50 *Hyla pickeringii*,
1 *Diemyctylus torosus*, 2 *Autodax lugubris*.

6 *Bufo viridis major*, 6 *Rana esculenta redebunda*, 16 *Bombinator*
igneus, 20 *Rana temporaria*, 25 *Molge cristatus*, 4 *Molge vul-*
garis, 4 *Salamandina perspicillata*.

6 *Amphiuma means*, 1 *Amphiuma tridactyla*, 10 *Spelerpes bilineatus*,
10 *Desmognathus fusca*, 10 *Plethodon glutinosus*, 2 *Spelerpes*
ruber, 2 *Spelerpes guttolineatus*.

15 *Bufo fowleri*, 12 *Hyla versicolor*, 3 Clusters eggs of *Amblystoma*
punctatum, 18 *Diemyctylus viridescens*.

THOMAS BLEAKNEY, Brooklyn, N. Y.

1 *Rana catesbiana*.

W. T. DAVIS, New Brighton, S. I.

1 *Hyla andersonii*.

DANIEL W. HOFF, Lawrence, Mass.

1 *Bufo fowleri*.

MISS FLORENCE MATTESON, Oneonta, N. Y.

3 *Rana palustris*, 23 *Diemyctylus viridescens*.

JOHN MERTLE, New York City.

1 *Rana palustris*, 2 *Rana clamitans*.

W. DEW. MILLER, Plainfield, N. J.

1 *Spelerpes longicauda*.

R. W. MINER, New York City.

1 *Rana sylvatica*.

L. L. MOWBRAY, Hamilton, Bermuda.

24 *Bufo agua*.

NEW YORK AQUARIUM, New York City.

4 *Rana calesbiana*, 1 *Necturus maculatus*.

NEW YORK ZOÖLOGICAL SOCIETY.

2 *Cryptobranchus allegheniensis*, 9 *Pipa americana*.

C. H. RICHARDSON, Palo Alto, Cal.

30 *Batrachoseps attenuatus*.

H. SIEVERS, New York City.

1 *Hyla maxima*.

BERTRAM G. SMITH, New York City.

5 *Cryptobranchus allegheniensis*; eggs of *C. allegheniensis*.

DR. JOSEPH C. THOMPSON, San Francisco, Cal.

2 *Diemyctylus torosus*.

A. L. TREADWELL, Poughkeepsie, N. Y.

1 *Desmognathus fusca*, with eggs.

LEWIS B. WHITE, Manson, N. C.

11 *Bufo fowleri*, 1 *Bufo americanus*.

BY EXCHANGE

COLUMBIA UNIVERSITY, New York City.

1 *Hypogeophis rostratus* from Seychelles, 1 *Ichthyophis glutinosus* from Ceylon.

REPTILES

BY GIFT

CLEVELAND H. DODGE FUND.

9 *Thamnophis sirtalis*, 1 *Thamnophis saurita*, 3 *Storeria dekayi*, 4 *Chrysemys picta*, 5 *Aromochelys odoratus*, 5 *Chelopus guttatus*, 1 *Chelopus mühlenbergii*. Collected in the vicinity of New York by G. von Krockow.

2 *Crotaphytus collaris*, 1 *Lacerta viridis*.

3 *Crotalus horridus*.

1 *Coluber obsoletus*, 1 *Ophibolus getulus*, 1 *Tropidonotus fasciatus sipedon*.

1 *Moloch horridus*.

Thamnophis saurita.

BRIG. GEN. GEORGE J. ANDERSON, Iloilo, Panay, P. I.

1 Python (head and skin) from Negros Island.

MRS. CHARLES R. BISSELL, New York City.

1 Python skin.

MRS. S. C. BORG, Irvington-on-Hudson, N. Y.

Lampropeltis doliatus triangulus.

BARNUM BROWN, New York City.

Collection of lizards and snakes from Cuba.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY, transfer.

Small collection of reptiles from Jamaica.

18 Specimens of lizards and snakes from the Dutch West Indies.

DEPARTMENT OF PARKS, New York City.

1 *Crotalus horridus*, 1 *Python molorus*, 1 *Iguana tuberculata*.

G. VON KROCKOW, New York City.

3 *Thamnophis sirtalis*, 25 young *Natrix fasciatus sipedon*.

MRS. H. LINDBALLE, New York City.

1 *Chrysemys picta*.

JOHN MERTLE, New York City.

1 *Thamnophis sirtalis*.

W. DEW. MILLER, Plainfield, N. J.

1 *Ophibolus getulus*.

NEW YORK AQUARIUM, New York City.

1 *Alligator mississippiensis*, 2 *Caretta thalassochelys*, 1 *Chelonia imbricata*, 1 *Chelonia mydas*, 1 *Macrochelys lacertina*, 1 *Macrochelys temminckii*.

NEW YORK ZOÖLOGICAL SOCIETY.

2 *Ancistrodon piscivorus*, 1 *Lachesis mutus*, 1 *Crotalus confluentes*, 1 *Crotalus durissus*, 11 *Crotalus horridus*, 1 *Crotalus mitchelli*, 1 *Epicrates striatus*, 2 *Eryx johnii*, 1 *Eunectes murinus*, 2 *Lachesis lanceolatus*, 1 *Pituophis sayi*, 2 *Python molorus*, 1 *Sepedon hamachates*, 1 *Spilotes corais*, 77 *Tropidonotus taxispilotus* (72 young), 1 *Vipera ammodytes*, 18 Florida Water Snakes (young), 1 *Licheteredon madagascariensis*, 1 *Ophisaurus apus*, 2 *Zonurus giganteus*, 1 *Vipera russellii*, 1 *Zamenis mucosus*, 2 *Alligator mississippiensis*, 1 *Crocodylus americanus*, 1 *Crocodylus intermedius*, 5 *Iguana tuberculata*, 3 *Sauromalus hispidus*, 2 *Sauromalus* (n. sp.), 1 *Ctenosaura hemilopha*, 1 *Egernia cunninghami*, 3 *Trachysaurus rugosus*, 3 *Uromastix hardwickii*, 2 *Testudo radiata*, 1 Rare Species of Turtle from Yucatan, 2 *Helicops*.

MISS E. W. NICHOLS, New York City.

1 *Gerrhonotus multicarinatus*.

MISS ELVINE RICHARD, New York City.

1 *Phrynosoma coronatum*.

G. C. RUSSELL, Elizabeth, N. J.

1 Skink from Egypt.

F. G. TILGHMAN, New York City.

1 Skull of *Thalassochelys caretta*.

FRANK VITOLO, New York City.

3 *Chrysemys picta*.

THROUGH MUSEUM EXPEDITION

Collection of Lizards and Snakes from Lower California.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

- G. W. J. ANGELL, New York City.
100 Coleoptera from various localities.
- J. W. ANGELL, New York City.
2 Specimens of *Neolaprina adolphina* (Lucanidæ) from New Guinea.
- H. J. BAGG, New York City.
24 Vials of spiders from Garrison-on-Hudson, N. Y., and Woods Hole, Mass., and about 100 insects, chiefly ants, from Woods Hole, Mass.
- MRS. ZITA BERSI, New York City.
12 Italian silkworms and a branch with dead cocoons of silkworm.
- GUSTAVE BEYER, New York City.
30 Specimens of Cerambycidæ from Florida and Lower California.
- A. C. BURRILL, Madison, Wis.
2 Vials of Diplopoda from Madison.
- B. H. BUXTON, New York City.
7 Orthoptera and 2 Bag-worm cases from Biskra, Algeria.
- MRS. HELEN CAMPBELL, Cold-Spring-on-Hudson, N. Y.
19 Eggs of *Phyllium* sp. from Ceylon.
- T. D. A. COCKERELL, Boulder, Colo.
7 Specimens of scale insects (3 of them cotypes), and three twigs with *Lecaniodiaspis* from Santa Paula, Cal.
- WM. P. COMSTOCK, Newark, N. J.
2 Specimens of local Coleoptera.
- WM. T. DAVIS, New Brighton, S. I.
1 Sponge and 1 Siphonophore from the south shore of Long Island, N. Y., and 23 Coleoptera from various localities.
- DEPARTMENT OF ANATOMY AND PHYSIOLOGY, transfer.
Collection of parasitic worms, etc.
- DEPARTMENT OF PARKS, New York City.
Several parasitic intestinal worms (Nemathelminthes) in Rock Python (*P. seba*).
- DR. A. B. DEYWARD, New York City.
Mass of dipterous puparia around skeleton of opossum from Rio de Janeiro, Brazil.
- E. L. DICKERSON, Newark, N. J.
4 Local Hemiptera.
- DR. E. BELFORT DUARTE.
1 Specimen of *Fulgora lanternaria*.
- CHARLES DURY, Cincinnati, Ohio.
29 Diptera and Odonata from Cincinnati.
- G. P. ENGELHARDT, Brooklyn, N. Y.
19 Coleoptera and a piece of flannel injured by clothes moths.

- OGDEN GILES, Brooklyn, N. Y.
7 Mole Crabs (*Hippa talpoida*) from Coney Island and Asbury Park,
and 17 insects and spiders, mostly local.
- JOHN A. GROSSBECK, New Brighton, S. I.
Collection comprising 13,000 local insects (all orders).
- THOMAS HALLINAN, Paterson, N. J.
4 Specimens of Coleoptera.
- EDWARD HARRIS, New York City.
24 Cicindelidæ from various localities.
- PAUL HAYHURST, Fayetteville, Ark.
2 slides of Mycetophilid larvæ from Chester, Ark.
- A. E. HEIGHWAY, Panama.
2 Large cup sponges from Caribbean Sea, near Bocas del Toro.
- MR. JAVENS, Mount Dora, Fla.
1 Specimen of larva of *Chrysopa* sp. from Mount Dora.
- L. H. JOUTEL, New York City.
Several specimens of Coleoptera.
- F. C. KABEN, San José, Costa Rica.
1 Spider web and 3 *Megachile* with their work, from Costa Rica.
- FRED KESSLER, New York City.
Several specimens of *Lumbricus terrestris*.
- G. VON KROCKOW, Brooklyn, N. Y.
Collection of invertebrates from Saugerties, N. Y., and Central Park,
New York City, and a small collection of local insects from
various localities.
- C. W. LENG, New York City.
Over 200 specimens of Coleoptera from various localities.
- Miss JEAN K. MACKENZIE, New York City.
26 Lepidoptera and other insects, from Kamerun, West Africa.
- D. H. MARTINEZ, New York City.
1 Walking-stick insect from Brazil.
- E. MAYENBERG, New York City.
Various Isopoda, Myriapoda, Arachnida and Insecta from New York
State.
- DR. E. MONTEALEGRE, New Rochelle, N. Y.
2 Specimens of *Megasoma elephas* from Costa Rica.
- DR. T. H. MORGAN, Columbia University, N. Y.
200 Specimens (illustrating experimental work with *Drosophila
ampelophila*).
- P. R. MYERS, Harrisburg, Pa.
2 Cotypes and 2 cocoons of *Mimesa myersiana*.
- NEW YORK AQUARIUM, New York City.
Mites from a West Indian Seal, and 1 Box Crab from Bermuda.
- NEW YORK ENTOMOLOGICAL SOCIETY, New York City.
The Seifert Collection of Lepidoptera, embracing about 5,000 speci-
mens, chiefly the results of experiments relating to the effects of
environmental conditions.

- DR. FRANCIS C. NICHOLAS, New York City.
About 400 insects and arachnids from Copete Mine, State of Sonora, Mexico.
- F. W. NUNENMACHER, Piedmont, Cal.
25 *Cicindela eureka* from Humboldt Co., Cal.
- MRS. WM. S. OPDYCKE, New York City.
Specimens of White Ivy Scale from New York City.
- CAPT. JOHN F. PARKER.
1 Beetle from Tutuila, Samoa.
- C. R. PLUNKETT, Flushing, L. I.
1 *Pyrophorus noctileus* from Santiago de las Vegas, Cuba.
- C. L. POLLARD, New Brighton, S. I.
36 Specimens of Coleoptera.
- MISS ELVINE RICHARD, New York City.
Collection of insects, corals and other invertebrates.
- COL. W. ROBINSON, West Point, N. Y.
Collection of local Coleoptera.
- CHARLES SCHAEFFER, Brooklyn, N. Y.
4 Specimens of local Coleoptera.
- HENRY SCHEUERMAN, New York City.
1 Mud Crab (*Panopeus* sp.) from Irvington, N. J.
- HOWARD J. SHANNON, Jamaica, L. I.
2 Vials of Annulata from Long Beach and Jamaica Bay.
- ERNEST SHOEMACHER, Brooklyn, N. Y.
Several local Coleoptera and Noctuidæ.
- GEORGE SILLY, Brooklyn, N. Y.
7 Sponges from Turks Island, Bahamas, W. I.
- CHARLES E. SLEIGHT, Paterson, N. J.
9 Specimens of local Coleoptera.
- MISS ANNA RIKER SPRING, New York City.
1 Sponge (*Euplectella speciosissima*).
- J. STARK, New York City.
A branch with cocoons of *Philosamia cynthia*, from Astoria, L. I.
- DR. R. O. STEBBINS, New York City.
Various insects, spiders and myriapods.
- DR. J. H. STEBBINS, New York City.
Collection of Lepidoptera.
- E. S. G. TITUS, Forest Hills, Mass.
4 Specimens of *Phytonomus posticus*.
- UNIVERSITY OF TOKIO, Tokio, Japan.
15 Jars of myriapods from Japan, Formosa and Loo-Choo Islands (including 11 species).
- F. E. WATSON, New York City.
1 Specimen of local Coleoptera.
- DR. FRED D. WEIDMAN, Philadelphia, Pa.
6 Specimens of *Spiroptera incerta*.

- COL. ALEXANDER E. WIGHT, Kingston, Jamaica.
 135 Hymenoptera from Rio Grande River, Jamaica.
 CHARLES WUNDER, Dundee Lake, N. J.
 150 Local insects and 11 spiders.
 N. YULICH, New York City.
 Nest of wasp on lamp globe (*Sceliphron cementarius*).
 HEIRS OF DR. J. L. ZABRISKIE, New York City.
 Collection of over 29,000 insects, mostly local.
 CARL ZEIMET, New York City.
 66 Local Lepidoptera.

BY EXCHANGE

- G. W. J. ANGELL, New York City.
 About 200 Chrysomelidæ and Cleridæ.
 ARTHUR W. HENN, Bloomington, Ind.
 Collection of Cave Fauna.
 PROF. HENRY FAIRFIELD OSBORN, New York City.
 1 *Hipponee esculenta* A. Ag.
 C. L. POLLARD, New Brighton, S. I.
 106 Lepidoptera.

BY PURCHASE

- 31 Corals from Tahiti.
 Collection of tropical Diptera containing many types from Dr. S. W.
 Williston, University of Chicago.
 Collection of alcoholic invertebrates from the Lesser Antilles.
 1 Bee's Nest.
 1 *Pholas typhon*.
 1 Series of 6 models, illustrating life history of a Tree-hopper.
 24 Microscopic slides of typical Rotifera prepared by Mr. C. F.
 Rousselet.
 1 Observation bee-hive with swarm of bees.

THROUGH MUSEUM EXPEDITIONS

- 1 Starfish and 1 crab from Japan. Collected by Mr. R. C. Andrews.
 Collection of about 4,000 insects and other invertebrates from
 Jamaica, B. W. I. Collected by Mr. J. A. Grossbeck.
 Various invertebrates from New York and New Jersey. Collected
 by Mr. G. von Krockow.
 A large collection of invertebrates from Lower California. Collected
 by Dr. C. H. Townsend.
 Collection of invertebrates from Santa Clara, Cuba. Collected by
 Mr. Barnum Brown.
 2 Isopods from Colombia, South America. Collected by Mr. Frank
 M. Chapman.

Collection of about 5,000 invertebrates from Florida. Collected by Dr. F. E. Lutz and Mr. C. W. Leng.

Collection of about 20,000 invertebrates from Leeward Islands and British Guiana. Collected by Prof. H. E. Crampton, Mr. R. W. Miner and Dr. F. E. Lutz.

Collection of invertebrates from Redding, Conn. Collected by Prof. A. L. Treadwell.

2 Specimens of *Argulus ingens* and 3 specimens of *Achtheinus pinguis* Wil., types, from Moon Lake, Miss., and Cape of Good Hope, South Africa.

Collection of marine invertebrates from Nahant, Mass. Collected by Mr. R. W. Miner.

LEPIDOPTERA

BY GIFT

HORACE DAWSON, Hymers, Canada.
10 *Catocala* from Ontario, Canada.

CHARLES PALM, New York City.
A small collection of Lepidoptera.

BY EXCHANGE

F. H. WOLLEY DOD, Millarville, Canada.
Collection of Noctuidæ from Calgary, Canada.

THROUGH MUSEUM EXPEDITION

About 3,000 specimens of Lepidoptera. Collected by Mr. Wm. Beutenmüller. (Hoffman Expedition to Black Mountains.)

MOLLUSCA

BY GIFT

A. D. GABAY, New York City.
Collection of about 300 shells and a few shell ornaments.

MRS. J. LIPMAN, New York City.
Oyster with pearly blister containing trematode worm.

S. A. MITCHELL, Manila, P. I.
3 *Cyclapharus woodianus* Lea., and 3 *Helicostyla fulgens* Swb. from the Philippines.

DR. A. POSCH, Round Top, Texas.
Specimens of fossil pearls from Round Top.

EUGENE WILEY PRESBREY, New Rochelle, N. Y.
1 Perfect *Voluta junonia* from west coast of Florida.

MISS ELVINE RICHARD, New York City.
About 865 specimens of marine and land shells, comprising 63 families.

GEORGE SILLY, Brooklyn, N. Y.
Collection of beach shells from the West Indies, representing 35 genera.

MAXWELL SMITH, Hartsdale, N. Y.

1 *Rostellania delicatula* from the Persian Gulf, and a collection of European *Helix* including six species.

DR. R. O. STEBBINS, New York City.

Collection of miscellaneous shells.

CHRISTIAN WEBER, Jersey City, N. J.

1 *Nautilus pompilius*.

O. WHEAT, Brooklyn, N. Y.

Tube of *Teredo navalis* with *palets* taken from wreck in Jamaica Bay, L. I.

BY EXCHANGE

COE COLLEGE, Cedar Rapids, Iowa.

Collection of 116 specimens representing marine and land shells from British Honduras.

MAXWELL SMITH, Hartsdale, N. Y.

Collection of 97 specimens of land, marine and fresh-water shells from the Mediterranean coasts, the Nile, Red Sea, Mexico, England, Spain and Madeira.

BY PURCHASE

Modiola plicatula having pearlaceous granulations, Bay Shore, L. I.
Voluta junonia from west coast of Florida.

THROUGH MUSEUM EXPEDITIONS

A large collection of Mollusca, the most valuable being land shells, comprising about 50 genera and some 80 species with fragmentary material of value. Collected by Mr. Barnum Brown.

A small lot of beach valves (*Astarte* and *Solecurtus*) from Arctic North America. Collected by the Stefánsson-Anderson expedition.

Collection of about 170 specimens of marine shells from the Gulf of California. Collected by Dr. Charles H. Townsend, representing the first instalment of the molluscan collection made by this expedition. Mostly from the Caraven Islands; comprising 23 genera and 27 species.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE
PALÆONTOLOGY

BY GIFT

JOHN F. BAARS, JR., New York City.

1 Specimen of hornblende schist showing peculiar weathering from Minnesota.

MARSHALL C. BACON, New York City.

4 Photographs of a water-spout in the Hudson River, New York.

116 *Geology and Invertebrate Palaeontology—By Exchange*

- J. MORGAN CLEMENTS, New York City.
22 Ores of copper and other metals from Arizona, Nevada, etc.
- RUSSELL J. COLES, Danville, Va.
The orifice of a natural submarine spring from near the mouth of
New River, N. C.
- COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.
Stalactites, stalagmites, etc., for construction of cave, from Bisbee,
Ariz.
- DEPARTMENT OF INVERTEBRATE ZOÖLOGY, transfer.
A large series of fossil plants and insects from Florissant, Colo.
- DEVELOPMENT COMPANY OF AMERICA, New York City.
43 Ores of copper sulphides and oxides from Arizona.
- GEORGE H. GIRT, Washington, D. C.
800 Fossils from the Cambrian, Hamilton, Upper Helderberg and
Oriskany formations, mostly from Canada.
- EDWARD GRIFFIN, New York City.
42 Samples of soil from near Tryon, N. C.
- C. B. HARMON, New York City.
10 Specimens of phosphate rock from Beach River, Decatur Co.,
Tenn.
- R. T. HIRSCH, New York City.
Sawed half of boulder of quartz, containing cassiterite from Alaska.
- LAUTZ COMPANY, Buffalo, N. Y.
4 Slabs of Marble from Philipsburg, Ontario, Canada.
- B. MCGUIRE, Beattyville, Ky.
6 Salamites, 5 Sigillaria and 1 seed or nut from Beattyville.
- ALBERT OPERTI, New York City.
22 Oil sketches made during removal of Peary meteorites from Cape
York, Greenland, 1896-1897.
- MRS. MAX ROESSLER, Bisbee, Ariz.
1 Specimen of crystallized native copper from Bisbee.
- HON. WILLIAM SULZER, New York City.
50 Specimens of gold, copper and miscellaneous ores from Alaska.

BY EXCHANGE

- JULIUS GÖRGES, Düsseldorf, Germany.
40 Specimens of 18 species of fossils from Germany.
- NEW YORK STATE EDUCATION DEPARTMENT, Albany, N. Y.
8 Glacial relief maps of New York State.
- OTTO F. PFORDTE, Rutherford, N. J.
26 Minerals from Franklin Furnace and vicinity.
74 Ores and associated rocks from Europe.
- BURNETT SMITH, Skaneateles, N. Y.
100 Fossils from Hamilton shale, New York; St. Mary's forma-
tion, Maryland, and Onondaga limestone, New York.

BY PURCHASE

- 150 American rocks and specimens illustrating phenomenal geology.
- 100 Rocks and fossils from the Panama Canal zone.
 - 1 Block of metallic antimony weighing 44 pounds.
- 52 Specimens of amber, copal and resin from New Zealand.
 - 1 Slab of jasper conglomerate from St. Albans, England.
 - 1 Twenty-seven-pound piece of the Long Island, Kansas, meteorite.
 - 2 Pieces (64 ozs.) of the Ness County, Kansas, meteorite.
 - 1 Model of Pulpit Rock, Nahant, Mass.
 - 1 *Eozoön bavaricum* from Possau, Baiern, Germany.
- 44 Cambrian trilobites from near Lancaster, Pa.
 - 6 Cambrian trilobites from Braintree, Mass.
 - 2 Specimens of *Arthropycus harlani* from Medina sandstone, 5 miles east of Hyndman, Bedford Co., Pa.
- 43 Devonian fossils from the Falls of the Ohio.
- 20 Specimens of ammonites.
- 3 Specimens of belemnites.
- 7 Specimens of lamellibranchs (European).

THROUGH MUSEUM EXPEDITIONS

- 200 Cambrian trilobites and fragments from Pennsylvania.
- 100 Specimens of agatized wood from the Petrified Forests near Adamana, Ariz.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

- ALABAMA ANTHROPOLOGICAL SOCIETY, Montgomery, Ala.
 - Chipped points from Montgomery County, Ala.
- MRS. GLOVER C. ARNOLD, New York City.
 - Spinning wheel.
- PROF. A. S. BICKMORE, New York City.
 - Pair of sealskin gloves, and a pouch of birdskin, Alaska.
- MRS. A. D. BLISS, New York City.
 - Hammock, decorated with featherwork, from Venezuela.
- CHARLES BRADFORD, Richmond Hill, L. I.
 - Blue heron decoy, from Great South Bay, L. I.
- BARNUM BROWN, New York City.
 - Triangular mortar from Montana.
- MISS MARY T. BRYCE AND WILLIAM BRYCE, JR., New York City.
 - Burial urn and three small bowls from Arizona.
- A. F. DIXON, Newark, N. J.
 - Arrow-head from near Keokuk, Iowa.

RUDOLPH DOLGE, New York City.

Model of an Indian village from the mouth of the Orinoco River.

DR. JAMES DOUGLAS, Spuyten Duyvil, N. Y.

Collection of baskets from various localities.

THEODORE DWIGHT, New York City.

Four pairs of Mexican shoes from Lake Chapala, Mexico.

LIEUT. G. T. EMMONS, Princeton, N. J.

3 Robes from the Fiji Islands.

LOYALL FARRAGUT, New York City.

Neck ornament from the Hawaiian Islands, small human figure and belt from the Tlingit Indians of Alaska, and a rattle from the Philippines.

DONALD FERGUSON AND ERRIC FERGUSON, Garden City, L. I.

1 celt, 2 pitted stones, and about 100 chipped points, from near Hoosick, N. Y.

DR. LEO J. FRACHTENBERG, New York City.

Fish hooks from Siletz Reservation, Oreg.

MRS. GRACE LLEWELLYN GIBSON, New York City.

2 Samoan costumes.

GEORGE BIRD GRINNELL, New York City.

Buffalo skull, sacks of paints, sticks and hoops used in Cheyenne altar.

MRS. R. M. HANNA, New York City.

2 Musical instruments from China, basket from the Leeward Islands, and clay figure of a woman from the Southwest.

DR. EJNAR HANSEN, New York City.

Model of Eskimo kayak from Greenland.

MRS. J. W. HASLEHURST, New York City.

Ethnological material, including silver ornaments, from Alaska and Montana.

A. HATFIELD, New York City.

1 Blunderbuss, 2 swords from Formosa, and 3 bows and a bundle of arrows, probably from the Loyalty Islands.

JOHN M. ILLICH, Brooklyn, N. Y.

Stone hatchet found in Baltimore, Md.

MRS. Y. P. LEE, Woodridge, N. J.

Stone ax with antler handle from Rabenhausen, Zurich, Switzerland.

HERMAN LEONARMS, New York City.

String of beads and 8 tops from Dutch Guiana.

RICHARD P. LOUNSBERY, New York City.

Painted buffalo robe from the Plains Cree.

DR. CARL LUMHOLTZ, New York City.

3 skulls, two belts, games and whistles, from Mexico.

DR. FRANK E. LUTZ, New York City.

Sample of native Indian hair from the Potamona, British Guiana.

G. MATHESIUS, New York City.

Carved silver finger ring from Fort Leavenworth, Kans.

- B. MCGUIRE, Beattyville, Ky.
8 Stone objects from mounds near Beattyville.
- JONAS NEWTON, Stony Brook, L. I.
Polishing stone found in upper Hudson Valley.
- DR. FRANCIS C. NICHOLAS, New York City.
Seeds and seed grinder from Sonora, Mexico.
- GEORGE OLSEN, New York City.
Grinding stone from Big Horn Basin, Wyo.
- W. C. PAUL, New York City.
11 Flints from Dutch Harbor, Unalaska.
- ADMIRAL R. E. PEARY, Washington, D. C.
Anvil said to have been used by the Frobisher Bay Eskimo.
- MRS. M. RADEKE, Providence, R. I.
Basket from Africa.
- PAUL RADIN, New York City.
2 Dolls from the Winnebago, Wis.
- DR. WILLIAM S. RAINSFORD, Ridgefield, N. J.
Bow, quiver, and poisoned arrows from Africa.
- RAYANNO R. RANCK, New York City.
Stone hatchet found near Middleburg, N. Y.
- REMINGTON SCHUYLER, Leonia, N. J.
6 Medicine sticks and 2 figures used in sun dance, Rosebud Reservation, and a stone implement from near Farmington, Conn.
- DE COST SMITH, New York City.
Painted cedar mat, probably of Nootka make.
- H. J. SPINDEN, New York City.
Bone, pottery, and stone implements from Mandan mounds, N. Dak.
- D. C. STAPLETON, Esmeraldas, Ecuador.
2 Strings of beads, 1 god, and many small pieces of gold from Esmeraldas.
- MRS. R. O. STEBBINS, New York City.
Specimens from the Eskimo, Japanese, Chinese, Javanese, Turks and North American Indians.
- MRS. KATE VEEDER, White Plains, N. Y.
Large wooden bowl from Mohawk Indians.
- J. T. WASHINGTON, Virginia City, Nev.
3 Photographs of rocks bearing markings.
- FRANCIS WEST, New York City.
Chipped points from near Kineo, Me.
- GEORGE F. WILL, Bismarck, N. Dak.
Archæological material from Mandan mounds near Bismarck.
- HORACE M. WILSON, New York City.
Pottery stamp from west bank of Saldana River, Dept. of Tolima, Colombia.
- JOSEPH ZARDELLA, New York City.
2 Oyster shells and 2 geodes found in Pearl Street, New York City.

BY EXCHANGE

LIEUT. G. T. EMMONS, Princeton, N. J.

Ethnological material from Bering Sea Eskimo and Tsimshian Indians.

GEOLOGICAL SURVEY, Ottawa, Canada.

12 Pottery vessels from Kansas.

E. W. KEYSER, Washington, D. C.

2 Buckskin bags said to have been collected among the Chippewa.

MUSEUM FÜR VÖLKERKUNDE, Berlin, Germany.

Casts of the Chavin stone.

OAKLAND PUBLIC MUSEUM, Oakland, Cal.

Collection of baskets from the Miwok and Hupa Indians, California.

PEABODY MUSEUM, Cambridge, Mass.

Collection of stone implements from the Gila and Salado River region.

PHILLIPS ACADEMY, Andover, Mass.

Archæological collection from Mandan sites.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

12 Skulls from Pachacamac and Trujillo Districts, Peru.

FRANK WOOD, New Bedford, Mass.

Collection of baskets from New England and Africa, 2 baskets from the Micmac Indians, 1 basket from the Celebes, 1 mat robe from New Zealand, and 1 Pomo basket.

BY PURCHASE

6 Archæological specimens from Mexico.

Collection of baskets from California and Alaska.

Buffalo skin tipi from the Plains Indians.

Ethnological collection from the Tsimshian.

68 Photographs of South Sea Island subjects.

Ethnological collection from Tierra del Fuego.

5 Arrow-heads, 1 flint, and three pottery vessels, from Adamana, Ariz.

Acoma blanket.

Tapa cloth and 2 mallets from Hawaii.

Collection of Navajo blankets.

Volcanic rock used in fire walk, and 5 costumes from Tahiti.

Paper molds, drawings and archæological specimens, from Yucatan.

(Le Plongeon.)

Ethnological collection from the Papago Indians, Arizona.

3 Archæological specimens from San Domingo.

Ethnological collection from the Penobscot Indians, Oldtown, Me.

2 Pottery vessels from Trujillo, Peru.

14 Specimens from the Papago Indians, Arizona.

Codex material from Tlaquiltenango, Mexico.

Rubbing from the Nestorian Tablet, China.

Collection from the Penobscot Indians, Maine.

Pottery bowl from Arizona.

Model of a birchbark house, Ojibway.

19 Pottery vessels from Chiriqui, Panama.

Feather box from the Maori.

THROUGH MUSEUM EXPEDITIONS

- Ethnological collection from the Plains Cree of Canada, from the Kiowa-Apache, Wichita, and Caddo of Oklahoma. Collected by Dr. P. E. Goddard.
- Collection of basketry from the Pima and Papago Indians, Arizona. Collected by Miss Mary Lois Kissell.
- Ethnological collection from the Crow Indians of Montana and from the Hidatsa Indians at Fort Berthold, N. Dak. Collected by Dr. R. H. Lowie.
- Ethnological collection from the Menomini Indians, Wisconsin. Collected by Mr. Alanson Skinner.
- Archæological and ethnological collections from Mexico and the Rio Grande Pueblos. Collected by Dr. H. J. Spinden.
- Ethnological collection from the Eskimo. Collected by Mr. V. Stefánsson.
- Two paper molds of sculptures on the side pilasters of the door of the Temple of the Jaguars, Chichen Itza, Yucatan. Collected by Mr. E. H. Thompson.
- Ethnological collection from the Hidatsa Indians of North Dakota. Collected by Rev. Gilbert L. Wilson.

DEPARTMENT OF PUBLIC HEALTH

BY GIFT

BOARD OF HEALTH, Boston, Mass.

19 Bacterial cultures.

G. E. BOLLING, Brockton, Mass.

Photograph of Filter Bed.

BUREAU OF ANIMAL INDUSTRY, Washington, D. C.

5 Bacterial cultures.

BUREAU OF PLANT INDUSTRY, Washington, D. C.

6 Bacterial cultures.

COLLEGE OF THE CITY OF NEW YORK.

2 Bacterial cultures.

CORNELL UNIVERSITY, Ithaca, N. Y.

5 Bacterial cultures.

H. WARREN CROWE, Yelverton, Devon, England.

2 Bacterial cultures.

DELAWARE COLLEGE, Newark, Del.

9 Bacterial cultures.

DEPARTMENT OF HEALTH, New York City.

49 Bacterial cultures.

DUBLIN BACTERIOLOGICAL LABORATORY, Dublin, N. H.

5 Bacterial cultures.

A. J. GAVETT, Plainfield, N. J.

Photograph of Contact Bed.

- HOAGLAND LABORATORY, Brooklyn, N. Y.
3 Bacterial cultures.
- HYGIENIC LABORATORY, Washington, D. C.
12 Bacterial cultures.
- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.
37 Bacterial cultures.
- MACDONALD COLLEGE, Quebec, Canada.
1 Bacterial culture.
- MICHIGAN AGRICULTURAL COLLEGE, East Lansing, Mich.
41 Bacterial cultures.
- MOUNT PROSPECT LABORATORY, Brooklyn, N. Y.
31 Bacterial cultures.
- H. N. MULFORD CO., Glen Olden, Pa.
1 Bacterial culture.
- NEW JERSEY AGRICULTURAL EXPERIMENT STATION, New Brunswick, N. J.
9 Bacterial cultures.
- NORTH DAKOTA AGRICULTURAL COLLEGE, Agricultural College, N. Dak.
1 Bacterial culture.
- ONTARIO AGRICULTURAL COLLEGE, Guelph, Canada.
14 Bacterial cultures.
- PARKE DAVIS & CO., Detroit, Mich.
50 Bacterial cultures.
- PHILADELPHIA HOSPITAL FOR CONTAGIOUS DISEASES, Philadelphia, Pa.
4 Bacterial cultures.
- R. W. PRATT, Columbus, Ohio.
Photograph of Septic Tank at Columbus, Ohio, Sprinkler Nozzle.
- ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH, New York City.
24 Bacterial cultures.
- SYRACUSE UNIVERSITY, Syracuse, N. Y.
2 Bacterial cultures.
- W. GAVIN TAYLOR, Newark, N. J.
Sprinkler Nozzle.
- TEACHERS COLLEGE, New York City.
11 Bacterial cultures.
- UNIVERSITY OF CHICAGO, Chicago, Ill.
65 Bacterial cultures.
- UNIVERSITY OF IOWA, Ames, Iowa.
4 Bacterial cultures.
- UNIVERSITY OF MINNESOTA, Minneapolis, Minn.
2 Bacterial cultures.
- UNIVERSITY OF NORTH DAKOTA, University, N. Dak.
2 Bacterial cultures.

UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pa.

29 Bacterial cultures.

UNIVERSITY OF WISCONSIN, Madison, Wis.

8 Bacterial cultures.

VIRGINIA AGRICULTURAL EXPERIMENT STATION, Raleigh, Va.

1 Bacterial culture.

J. D. WATSON, Birmingham, England.

Photograph of Sewage Works.

BY PURCHASE

Photographs of Sewage Works.

27 Bacterial cultures, Vienna, Austria.

DEPARTMENT OF WOODS AND FORESTRY

BY GIFT

H. W. BENNETT & CO., New York City.

2 Specimens *Eucalyptus globulus*.

A. E. BUTLER, New York City.

Conifer sprays: Douglas spruce (*Pseudotsuga mucronata* Sudw.)

Lodgepole pine (*Pinus contorta* var. *murrayana*
Engelm.)

Western yellow pine (*Pinus ponderosa* Laws.)

Alpine fir (*Abies lasiocarpa* Nutt.)

W. H. BROWNELL, East Meredith, N. Y.

Small cherry wood sap trough (80 years old).

FOREST SERVICE, Washington, D. C.

Series of 10 photographs to show primitive and modern methods in
the maple sugar industry.

DANIEL W. HOFF, Lawrence, Mass.

Specimen showing unusual growth of maple rootlets.

NEW YORK BOTANICAL GARDEN.

Conifer sprays: White pine (*Pinus strobus* L.)

Scrub pine (*Pinus virginiana* Mill.)

Hemlock (*Tsuga canadensis* Carr.)

HENRY FAIRFIELD OSBORN, New York City.

Photograph of John Muir beside Douglas spruce.

JOSEPH ROBERTS, East Meredith, N. Y.

4 Maple logs.

4 Beech logs.

COREY F. WOOD, Hartford, Conn.

Specimen maguey fibre.

THROUGH MUSEUM EXPEDITIONS

Specimens of Alaskan plants. Collected by Mr. R. M. Anderson.

1 Large pine sap log (used for storage of unboiled sap), 1 iron kettle,

1 iron chain, wooden sap buckets and yoke. Collected by Mr.

Clyde L. Patch.

INCORPORATION

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until

an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

Given under my hand and seal of Office at the City of Albany,
[L. s.] this fourteenth day of April, in the year one thousand
eight hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

† Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

CONTRACT

WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of

D. PORTER LORD.

JAMES F. WENMAN,

*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,

*Secretary Department of Public Parks
of the City of New York.*

SEAL
of the American
Museum of
Natural History

ROBERT L. STUART,

*President American Museum of
Natural History.*

STATE OF NEW YORK,
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK,
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

FREDERICK W. LOEW,
Register.

[SEAL.]

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO FEBRUARY 5, 1912

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of the

Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday of every February and May, and the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President, shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such

suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum, subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XI

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$10,000 to the funds of the Museum, at one time, may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who

after being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

Any person contributing \$100 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

Any person may be elected to the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Associate Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

In recognition of scientific services rendered, the Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIII

Any Trustee who shall fail to attend three consecutive regular meetings of the Board shall cease to be a Trustee, unless excused by the Board.

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS

REVISED AND AMENDED TO FEBRUARY 5, 1912

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Annual and Sustaining Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or, in his absence, the Assistant Secretary, and countersigned by one of the following named Trustees: President, Chairman of the Executive Committee, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Assistant Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

FOR FURNISHING, EQUIPPING AND CONSTRUCTION
OF ADDITIONS TO THE AMERICAN MUSEUM
OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

Be it ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 2, 1909, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified :

“Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

(Signed) P. J. SCULLY, *Clerk.*

APPROPRIATIONS AND EXPENDITURES MADE THEREON
TO DECEMBER 31, 1911

RECEIPTS:

By Direct Appropriation (C.D.P. 3a).....	\$100,000 00	
Premiums on Sale of Bonds.....	1,000 54	
		<u>\$101,000 54</u>

EXPENDITURES:

Contracts:

John F. Kuhn.....	\$1,643 00	
Peter J. Constant.....	1,681 91	
Pittsburgh Plate Glass Co.....	2,705 98	
Library Bureau	989 62	
Peter J. Constant.....	836 00	
Cardo Borgia Stone Co.....	1,552 10	
Geo. H. Storm & Co.....	5,353 59	
Pittsburgh Plate Glass Co.....	1,034 25	
		<u>\$15,796 45</u>
Open Market Orders	23,641 52	
Mechanics Pay Roll.....	59,315 99	
Outstanding Open Market Orders.....	1,057 55	<u>\$99,811 51</u>
Available Balance December 31, 1911.....		<u>\$1,189 03</u>

FOR THE CONSTRUCTION OF THE FOUNDATION FOR THE SOUTHEAST WING AND COURT BUILDING OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1911

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of corporate stock of The City of New York in the sum of two hundred thousand dollars, to provide means for additions to Museum of Natural History, under the jurisdiction of the Department of Parks, Manhattan and Richmond.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 17, 1911, and authorizes the Comptroller to issue corporate stock of The City of New York to the amount and for the purposes therein specified:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars (\$200,000), to provide means for the construction of a foundation for the southeast wing and court building of the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 31, 1911, a majority of all the members elected voting in favor thereof.

Received from his Honor, the Mayor, Sept. 19, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

(Signed) P. J. SCULLY, *Clerk.*

APPROPRIATIONS AND EXPENDITURES MADE THEREON TO DECEMBER 31, 1911

RECEIPTS:

By Direct Appropriation (C.D.P. 3b).....	\$200,000 00
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EXPENDITURES:

Preliminary work on Foundation for Building.....	\$494 81
Available Balance December 31, 1911.....	\$199,505 19

FOR THE EQUIPMENT AND CONSTRUCTION OF PERMANENT IMPROVEMENTS TO THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1911

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of corporate stock of The City of New York in the sum of seventy-five thousand dollars, to provide means for furnishings for Museum of Natural History, under the jurisdiction of the Department of Parks, Manhattan and Richmond.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 17, 1911, and authorizes the Comptroller to issue corporate stock of The City of New York to the amount and for the purposes therein specified:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars (\$75,000), to provide means for the purchase of cases, bookstacks, furniture, etc., for equipment, and the construction of permanent improvements for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 31, 1911, a majority of all the members elected voting in favor thereof.

Received from his Honor, the Mayor, Sept. 19, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

(Signed) P. J. SCULLY, *Clerk.*

APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1911

RECEIPTS:

By Direct Appropriation (C.D.P. 3c) \$75,000 00

EXPENDITURES:

Mechanics Pay Roll \$1,914 97
Open Market Orders 166 28

\$2,081 25

Available Balance December 31, 1911 \$72,918 75

LIST OF MEMBERS

February 5, 1912

BENEFACTORS

By contribution of \$50,000 or upwards, or through honorary election

Mrs. MORRIS K. JESUP

J. PIERPONT MORGAN

ASSOCIATE BENEFACTORS

By contribution of \$10,000 or upwards, or through honorary election

OGDEN MILLS

PATRONS

By contribution of \$1,000 or upwards, or through honorary election

EDWARD D. ADAMS.
JOHN ANDERSON.*
JAMES ANGUS.*
HICKS ARNOLD.*
RICHARD ARNOLD.*
WILLIAM H. ASPINWALL.*
JOHN JACOB ASTOR.*
WILLIAM WALDORF ASTOR.
HUGH AUCHINCLOSS.*
BENJAMIN AYMAR.*
Mrs. GUY ELLIS BAKER.
A. H. BARNEY.*
D. N. BARNEY.*
JAMES GORDON BENNETT.
ALBERT S. BICKMORE.
Mrs. ALBERT S. BICKMORE.
FREDERICK BILLINGS.*
HEBER R. BISHOP.*
GEORGE BLISS.*

GEORGE T. BLISS.*
Miss SUSAN DWIGHT BLISS.
WILLIAM T. BLODGETT.*
ROBERT BONNER.*
HENRY BOOTH.
M. C. D. BORDEN.
J. A. BOSTWICK.*
GEORGE S. BOWDOIN.
GEORGE DEXTER BRADFORD.*
ALEX. H. BROWN, M.P.
JAMES BROWN.*
Miss MATILDA W. BRUCE.*
HERMON C. BUMPUS.
JOHN L. CADWALADER.
Mrs. CARNEGIE.
ANDREW CARNEGIE.
Dr. WALTER CHANNING.
JOSEPH H. CHOATE.
EDWARD CLARK.*

*Deceased

- JONAS G. CLARK.*
 JAMES B. COLGATE.*
 ROBERT COLGATE.*
 FREDERICK A. CONSTABLE.*
 MRS. FREDERICK A. CONSTABLE.
 JAMES M. CONSTABLE.*
 GEORGE C. COOPER.*
 PETER COOPER.*
 AUSTIN CORBIN.*
 ALEXANDER I. COTHEAL.*
 JOHN D. CRIMMINS.
 JOHN J. CROOKE.
 CORNELIUS C. CUYLER.*
 THOMAS DE WITT CUYLER.
 W. M. DONGAN DE PEYSTER.
 L. P. DI CESNOLA.*
 A. G. PHELPS DODGE.
 CLEVELAND H. DODGE.
 WILLIAM E. DODGE, 1st.*
 WILLIAM E. DODGE, 2d.*
 MRS. WILLIAM E. DODGE.*
 JAMES DOUGLAS.
 ANDREW E. DOUGLASS.*
 JOSEPH W. DREXEL.*
 MRS. ISAAC M. DYCKMAN.
 D. G. ELLIOT.
 MRS. M. SCHUYLER ELLIOT.
 JAMES R. ELY.
 Lieut. G. T. EMMONS, U.S.N.
 BENJAMIN H. FIELD.*
 CYRUS W. FIELD.*
 CYRUS W. FIELD, Jr.*
 Prof. AUGUSTE FOREL.
 HENRY C. FRICK.
 WILLIAM T. GARNER.*
 ELBRIDGE T. GERRY.
 ROBERT W. GOELET.
 LUDWIG MAX GOLDBERGER.
 GEORGE J. GOULD.
 JOHN A. C. GRAY.*
 WILLIAM A. HAINES.*
 ANSON W. HARD.
 MRS. E. H. HARRIMAN.
 OLIVER HARRIMAN.*
 HENRY O. HAVEMEYER.*
 THEODORE A. HAVEMEYER.*
 GEORGE G. HAVEN.*
 GEORGE A. HEARN.
 ABRAM S. HEWITT.*
 MRS. ABRAM S. HEWITT.
 VeryRev. E. A. HOFFMAN, D.D., LL.D.*
 MRS. EUGENE A. HOFFMAN.
 SAMUEL V. HOFFMAN.
 ARCHER M. HUNTINGTON.
 C. P. HUNTINGTON.*
 MRS. C. P. HUNTINGTON.
 B. H. HUTTON.*
 B. T. BABBITT HYDE.
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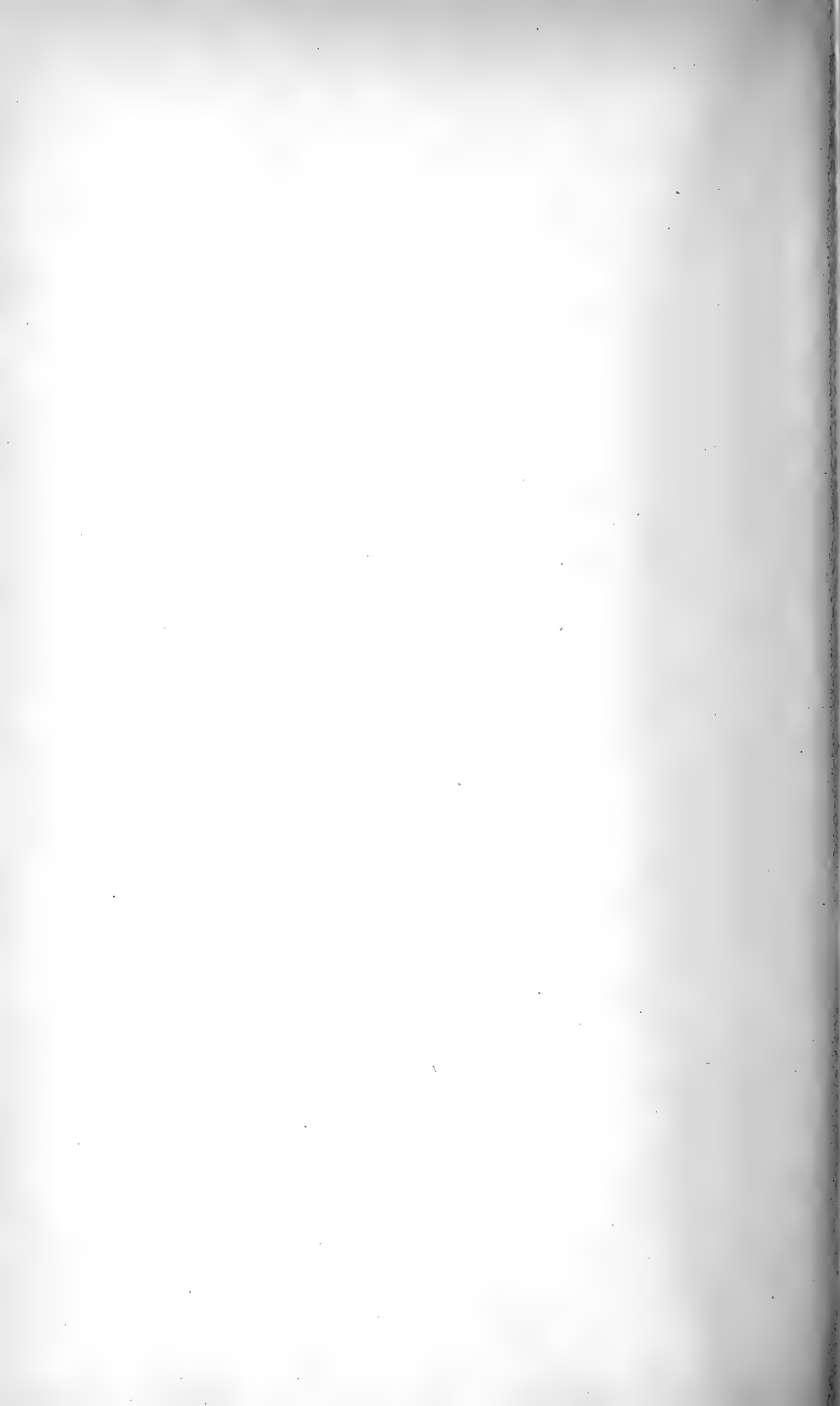
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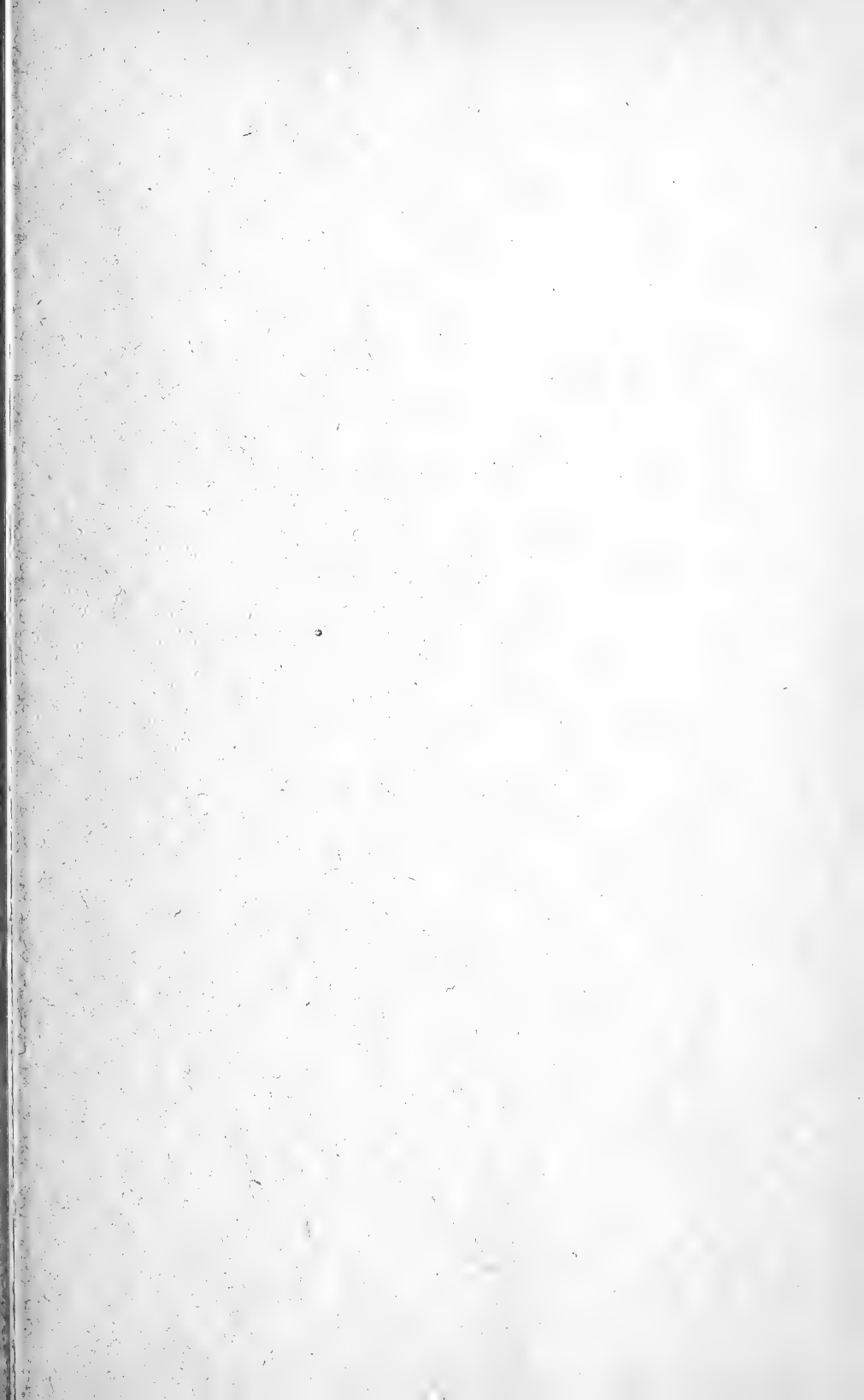
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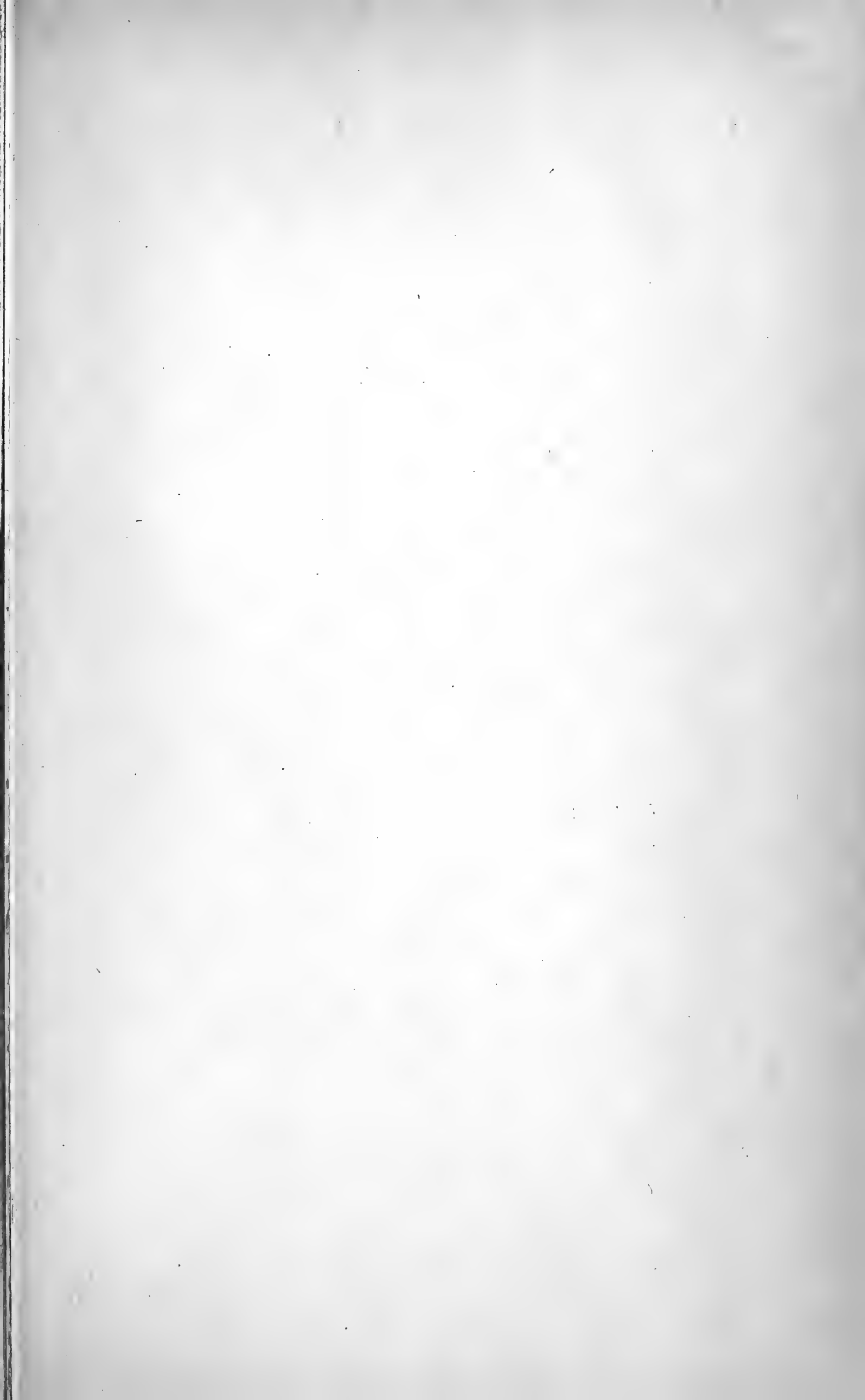




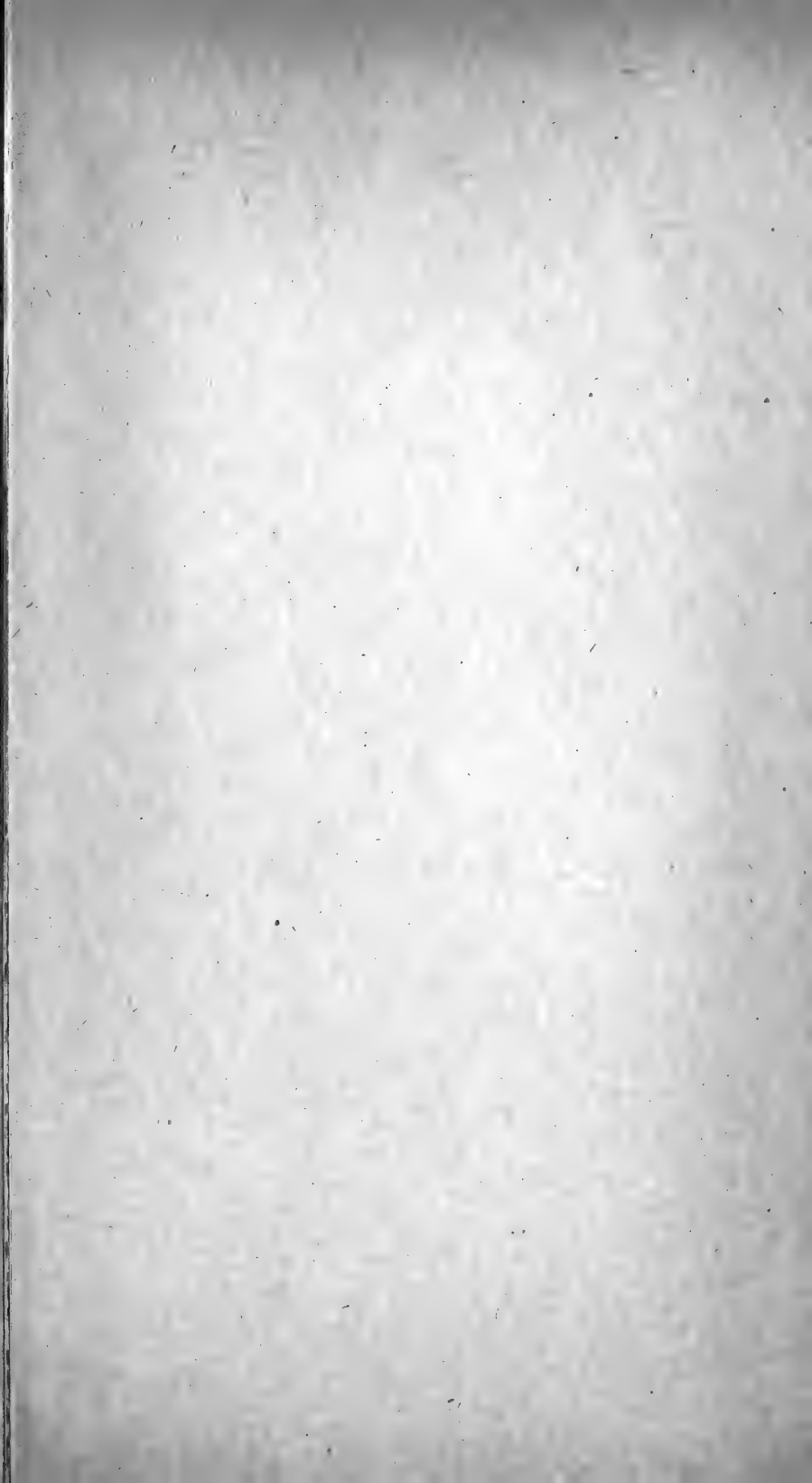
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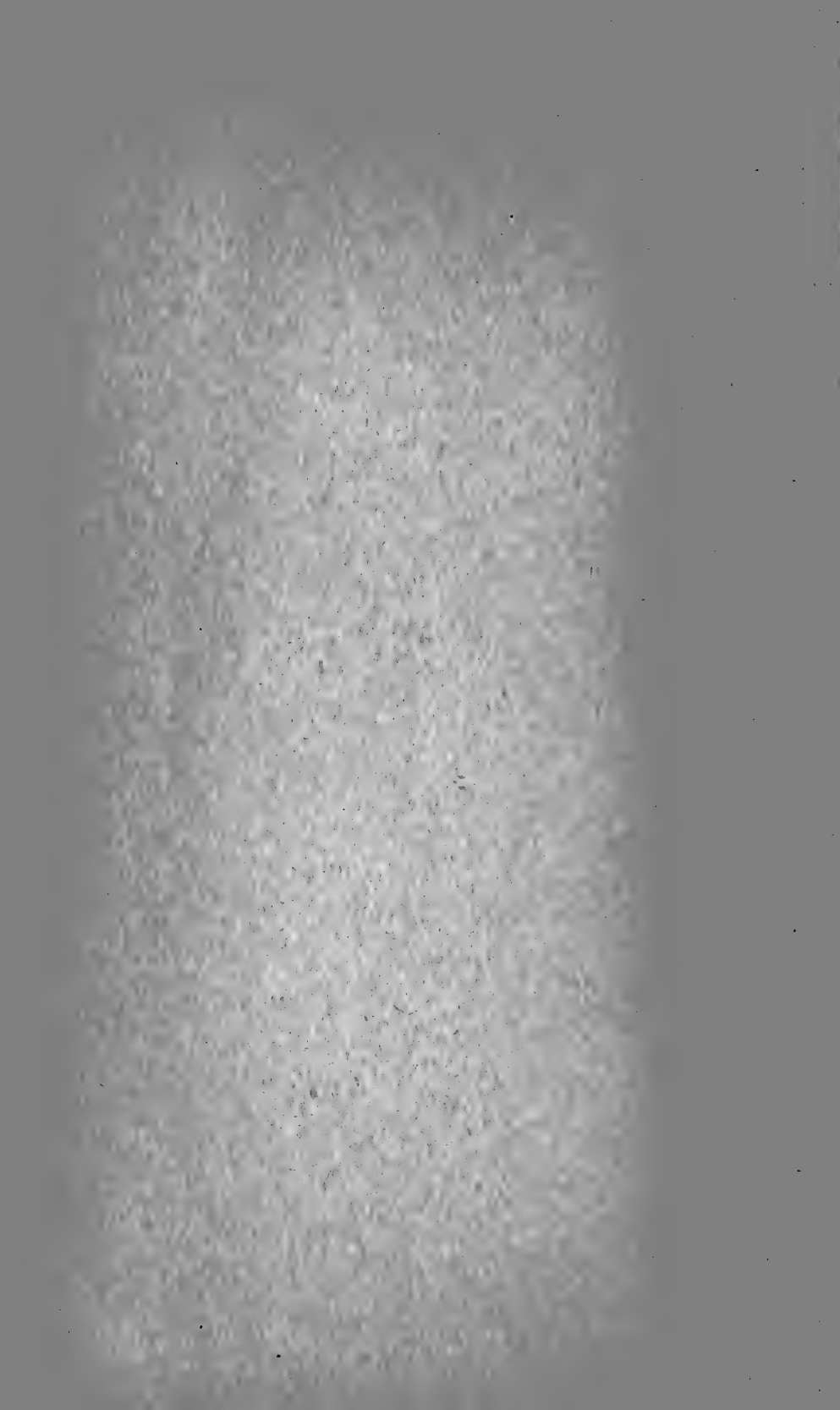
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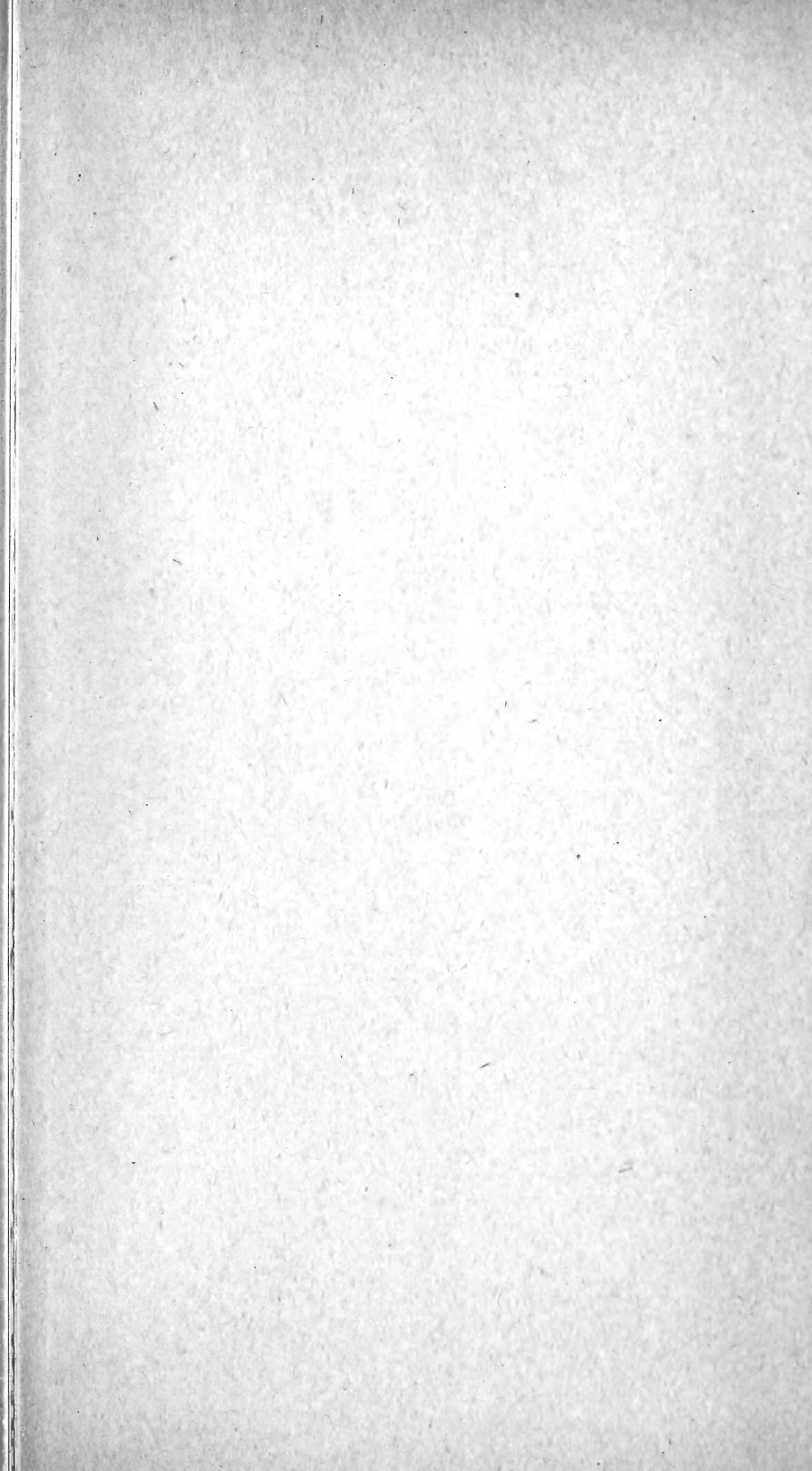
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